

NEWS SUMMARY

GENERAL

Silver medals for Britons

Philip Hubble and the women's medley relay team won silver medals for Britain in Olympic swimming events at the Moscow Games first day of competition. But they said they were sorry they had collected their awards without the Union Jack flying.

East German Barbara Kraus was first to break a world record in the 100 metres women's free-style swim.

Yachtmen from six Western nations refused to fly their nations' flags in protest at the Soviet invasion of Afghanistan. And seven Western airlines protested at the mid-air diversion of flights into Moscow during the opening ceremony. Page 2 and 9

Arms debate

An unprecedented number of resolutions opposing nuclear weapons have been submitted to this year's Labour Party conference. Back Page

Plotters executed

Five men were executed by firing squad in Tehran after being found guilty of plotting against the Government. In Paris, five men were charged with the attempted murder of former Iranian Premier Shapour Bakhtiar. Page 2

Libyan jet crash

Italy said the aircraft which crashed into a Calabrian mountain on Friday was a Soviet-built MIG 23, bearing Libyan markings. The dead pilot carried no identification. Page 2

New premier

Lebanon President Elias Sarkis appointed Mr. Takieddin Solh, 71, as Prime Minister. Mr. Solh said he would begin talks today on the make-up of his cabinet. Page 2

M-crash death

Nine year old boy died and 16 people were injured when a coach carrying day trippers collided with the central reservation on the M62 in West Yorkshire. Page 2

Island freedom

Britain and France are to grant independence to the New Hebrides on July 30 as planned, in spite of the rebellion on the island of Espiritu Santo. Page 2

Soldier shot dead

Off-duty soldier Christopher Watson, home on compassionate leave to visit his wife who had just lost a baby, was shot dead by gunmen in a Londonderry pub.

President flees

Bolivia's coup leaders moved to crush any resistance after ousted President Lidia Guevara took asylum in the Vatican mission in La Paz. Page 2

Watson wins

Tom Watson won the 109th British Open Golf Championship at Muirfield for the third time. Fellow American Lee Trevino was second, four strokes behind. Page 9

Cover price

Company wants to build a communal nuclear bomb shelter under a Buckinghamshire farm and to offer places at £5,000 a head.

Briefly ...

Premium Bond prize winners are: £100,000—TMK 325553; £50,000—14YZ 554468, and £25,000—BTW 088314. Netherlands' Joop Zoetemelk won the 67th Tour de France.

CONTENTS

Editorial comment: Comprehensive schools; Zim babwe after the General 10 knot	11
The Week in the Courts: Justinian	8
Lombard: Samuel Brittan on exchange rates	8
Finance Bill: Main amendments	4
Inflation: Hopeful signs 10	
Survey: Japan (Inset)	

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BUSINESS

Warning on state of Greek economy

BY JASON CRISP

THE POST OFFICE is to lose much of its telecommunications monopoly although private companies will still be prevented from competing with the basic network. It will also be encouraged to compete in the supply of equipment and new services and may enter joint-ventures with private companies.

The biggest initial relaxation will end the Post Office's traditional monopoly to supply and maintain all telephone equipment attached to the public network, although it will still provide the first telephone in each household or business place.

This is likely to mean U.S. and Canadian companies would be eligible, because of the more industrialised North American market, but the Japanese would not.

GEC, Standard Telephones and Cables (a UK subsidiary of the U.S.-owned ITT) and Plessey, the traditional main suppliers to the Post Office, are believed to have been particularly concerned that a sudden lifting of the monopoly would open a floodgate to imports, particularly from the Far East.

Suppliers will also have to have equipment approved by a new technical standards body, possibly part of the British Standards Institute. At present the Post Office itself approves equipment.

The Government is also expected to allow a small initial relaxation of the monopoly in providing extra services over the

network such as data-processing services, facsimile transmission and data-bank services. Here the Department of Industry is moving cautiously, as it wants to ensure the Post Office does not lose to private companies "creaming off" the profitable parts of the network.

On the other hand, if companies want to provide a new service which the Post Office cannot offer, they are more likely to meet with departmental approval.

At first any relaxation in these "value added services" would have little significance, but it is likely to become a major consideration later in the decade as the amount of information transmitted electronically between offices increases rapidly.

The Government is also expected to retain the discretion to allow large companies to set up microwave links or even to use satellite communication. Again the criterion is whether it will damage the Post Office's existing telecommunications business.

The Telecommunications Users Association yesterday called on Sir Keith Joseph to float part of the telecommunications side of the Post Office on the stock market and to allow it to raise loan capital freely in the market.

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EEC FOREIGN MINISTERS MEET

Discord over Mideast mission

BY JOHN WYLES IN BRUSSELS

EEC FOREIGN Ministers will try tomorrow to resolve some sharp differences which may delay the formal launch of the Community's fact-finding mission to the Middle East to be led by M. Gaston Thorn, the Luxembourg Foreign Minister and President of the Council of Ministers.

The mission idea was adopted by the EEC summit in Vevio last month as a talisman to its controversial declaration on the need for a comprehensive Middle East peace settlement. But it has proved more difficult than expected for the Nine to settle some basic questions on the substance and procedures of the Thorn mission and it is thought here that they may not be resolved before the middle of August.

The practical effects of failing to finalise the mission's mandate tomorrow may not be very

significant because it would not in any case be making any visits to the Middle East until after the end of Ramadan on August 12.

But Community Foreign Ministers will have to make some progress at removing disagreements which emerged at official level last week if they are to avoid embarrassing the EEC's initiative in its earliest stages.

Diplomats here are reluctant to reveal details but it appears that the difficulties centre on the level at which contacts should be made with Middle East Governments, on how to maintain a balance in discussions with the area's hawkish doves in relation to Israel and on how to treat the Palestine Liberation Organisation (PLO).

It is understood that Holland and West Germany are uneasy

about holding discussions with the top PLO leadership, including Mr. Yassir Arafat, the organisation's chairman, not least because of possible Israeli and U.S. disapproval.

It seems likely that M. Thorn will be accompanied and advised by officials from a number of Community countries with particular expertise on the Arab-Israeli problem. The British Foreign Office is expected to be heavily represented.

As defined in Venice, the broad aim of the mission is to establish "the position of the various parties with respect to the principles" set out in the EEC declaration. The Nine hope that the contacts could pave the way for an effective European initiative, probably in the form of a special meeting of the Council of Ministers in New York the day before the special assembly convenes.

East peace negotiations. If their discussions become prolonged, the Foreign Ministers will be pushed to complete a very crowded agenda which also embraces accession negotiations with Spain and Portugal, trade relations with the U.S. and Japan, the future of the EEC's anti-crisis measures for the steel industry, and the proposed regulations to implement the agreement reducing the UK's budget contributions.

Ministers must also prepare the Community's position for the special UN assembly starting on August 25 aimed at re-launching the North-South dialogue on the basis of global negotiations. Such are the complexities and the need for flexibility that the Commission is recommending a special meeting of the Council of Ministers in New York the day before the special assembly convenes.

At present German banks can avoid domestic restrictions by conducting their Euro-market business through foreign subsidiaries in leading financial centres such as Luxembourg. The changes recommended by the Finance Ministry study paper have been made as part of the preparation for a new Banking Law planned for debate during the next legislative period of the Bundestag, the West German lower House.

The draft picks up and strengthens several suggestions of the Gessler Commission which was set up to study possible reforms of the West German banking system in the wake of the crash of the Herstatt Bank in 1974.

It suggests that a bank's industrial holdings should be reduced to no more than a 10 per cent interest in individual companies, although it would allow some eight to ten years for the banks to make any necessary disposals.

Our Frankfurt correspondent adds: Despite clear signs that economic activity in West Germany is beginning to slow down, the Bundesbank, the West German Central Bank, appears unlikely to relax its record interest levels before the late summer.

The last meeting of the Central Bank Council before its four-week summer break takes place this Thursday. Dealers in the financial markets here suggest that the Bundesbank could decide then to lower the level of minimum reserves that must be held by the banks thus increasing bank liquidity.

Here, Karl Otto Pöhl, president of the Bundesbank, stressed yesterday that a major factor remained the need to attract foreign capital into the Federal Republic to help finance the deficit in the current account of the balance of payments, which the Bundesbank now expects to jump to around DM 25bn this year, compared with a deficit of only DM 10bn in 1979.

Other Press reports have indicated that the attackers were Palestinians. On Friday Tehran Radio had carried a statement from a previously unknown group, the Guardians of Islamic Revolution, who is generally regarded as moderate in the rivalry between the hardline Islamic Republican Party, which dominates the Parliament, and the President.

Any Iranian connection has been emphatically denied by

Plan to limit bank holdings in W. Germany

By Kevin Donn in Frankfurt

WEST GERMAN banks' far-reaching equity holdings in German industry should be substantially reduced according to the draft amendments for a new West German Banking Law produced by the Federal Finance Ministry.

Among other important changes, the Finance Ministry is suggesting that German banks should be forced to produce a consolidated balance sheet including all their foreign as well as domestic interests.

This would allow the banking authorities for the first time to make a more rigorous assessment of the risks German banks are taking on the Euro-markets and in particular in lending to certain high-risk countries.

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Five shot after Iran begins coup trials in secret

By PATRICK COCKBURN IN TEHRAN AND SIMON HENDERSON IN LONDON

FIVE leaders of the military conspiracy against the regime of Ayatollah Khomeini, Iran's revolutionary leader, were executed yesterday. One was a former post-revolutionary head of the Gendarmerie, the others were air force officers.

At least 500 people are still under arrest and further executions are likely following a call from Ayatollah Khomeini for the death penalty for anybody involved in the attempted coup d'état. "No one has the right to pardon any of them," he said.

Those executed were shot by firing squad after a secret trial lasting 18 hours. The attempted coup is said to have planned to return to power. Dr. Japhour Bakhtiar, the last premier appointed by the Shah, who escaped unhurt during an assassination attempt against him in Paris last Friday.

French police have arrested two more men who are believed to have taken part in the assassination plot. Three had been arrested on Friday after a gun battle with police guarding Dr. Bakhtiar's flat.

Meanwhile, the ruling Revolutionary Council has been theoretically dissolved. After spending seven weeks on organisational matters, the newly-elected Parliament has now assumed full legislative functions.

Among its first tasks will be to approve a Prime Minister and Cabinet. President Bani-Sadr is expected to put forward Mr. Hassan Habibi, the Minister of Culture and Higher Education, who has generally occupied a moderate position in the rivalry between the hardline Islamic Republican Party, which dominates the Parliament, and the President.

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that the leader of the attackers was confessing that he was acting on orders from the revolutionary authorities in Tehran, but at a Press conference yesterday the public prosecutor handing the case refused to confirm or deny the report.

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Mr. Shahpour Bakhtiar escapes assassination

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Turkish Marxist group claims latest killing

By METIN MUNIR IN ANKARA

THE ASSASSINATION in Istanbul on Saturday of Mr. Nihat Erim, a former prime minister of Turkey, has been claimed by a Marxist underground organisation whose leaders were killed in a clash with the army in 1971 when Mr. Erim was in office.

Mr. Erim, a soft-spoken, uncomplicated politician of conservative views, had become Prime Minister that year when the army ousted Mr. Suleyman Demirel, then as now Prime Minister, for his inability to kill.

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WORLD TRADE NEWS

Patricia Newby in Canberra and John Wyles in Brussels explain the reasons behind the trade threat from Canberra

Why the lamb dispute forced Australia to draw the line

WHEN Mr. Doug Anthony, Australia's Deputy Prime Minister and Minister for Trade and Resources, threatened last week to divert up to A\$1bn (£500m) in trade away from the European Economic Community, he was not bluffing—at least it would be rash to assume that he was.

Australia is certainly very angry and worried about the EEC move, announced on May 30, to include a sheepmeat regime in the Common Agricultural Policy (CAP).

Not only is there the prospect of a reduced market for Australian mutton and lamb, but the Australians fear disruption to other markets if subsidised EEC sheepmeat is unloaded as has happened with other commodities under the CAP.

With talks due to be resumed in Brussels on Wednesday when a high-level Australian delegation will meet EEC officials, Canberra can be expected to take a hard line.

Australia believes subsidised EEC surpluses have usurped markets from unsubsidised pro-

ducers of sugar, beef, dairy produce and flour. It is dismayed at the prospect of another subsidised commodity on world markets.

The chances of Australia retaliating if it does not receive some satisfaction in the sheepmeat negotiations are now higher than ever before. Mr. Anthony's threat to Mr. Finn Gundelach, the EEC's Agricultural Commissioner, earlier this week had been reiterated not only by Mr. Anthony, but by other Cabinet ministers.

The cancellation of one or two headline-grabbing contracts such as the A\$200m (£100m) deal for four European Airbuses for the Government-owned domestic airline, TAA, is being held out as a possibility.

The Government has put itself in a position where it must follow through the threat or lose credibility with both the EEC and the Australian electorate.

Mr. Anthony is adamant that the threat was not idle, "I am quite calm about it," he said. "We've got to draw the line somewhere and the sheepmeat

industry is very important to Australia."

It is possible that military purchases from the EEC could be affected. Nobody expects the Government to make decisions in pique over sheepmeat that would affect Australia's defence capacity, but in the grey areas—such as joint ventures worth millions of dollars building aircraft and destroyers in Australia—a non-EEC partner might be given preference.

British would be particularly vulnerable in the event of retaliation, because among the nine EEC members, it has by far the largest trade volume with Australia. Of the A\$3.5bn (£1.72bn) worth of EEC goods imported last year, about half were from the UK.

Mr. Anthony said last week that although Australia appreciated the help given by some EEC countries to his country's case, it was not possible to exclude them from retaliation.

"The total membership of the EEC must recognise what the consequences are," he said. Under the proposed sheep-

meat regime, the EEC wants exporting countries like New Zealand, Australia and Argentina voluntarily to limit exports in return for a lower rate of duty than the current 20 per cent.

Australia exported about 11,000 tonnes of mutton and lamb in 1979, worth about A\$13m, to the EEC last year. The EEC is currently exporting about 6,000 tonnes of sheepmeat a year, but Australia fears that Community price supports will lead to surpluses which will be sold cheaply on third markets in competition with unsubsidised commodities from local farmers.

Australia has been virtually excluded from the EEC market since the CAP was introduced in the mid-1960s and Britain's entry in 1973.

Australians accept that for practical purposes, the old relationship with Europe is finished.

What really hurts is that Europe has not only shut off its own markets from Australia, but is disrupting inroads into the new markets in South East Asia which Australia has developed to compensate.

Officials estimate that unsubsidised producers like those in Australia, have lost 200,000 tonnes of beef exports to the Middle East and Eastern Europe because they cannot compete with subsidised exporters in the EEC.

The ultimate taunt came when EEC sugar manufacturers began exporting to Papua New Guinea, at subsidised prices, undermining the exports of sugar pro-

ducers in Queensland only a few hundred miles away.

The EEC's refusal to sign the International Sugar Agreement has been a bone of contention between Australia and the EEC for years. In 1975, the EEC was a net sugar importer, but with the help of subsidies its members exported an estimated 3.8m tonnes in 1978—more than Australia's entire production of 3.4m tonnes. Subsidies on dairy products, cereals and flour are affecting Australian and New Zealand exports to neighbouring economies of South-East Asia and Japan.

Now that sheepmeat threatens to join the list, Mr. Anthony has demanded a guarantee that there will be no subsidised sheepmeat exports.

"The EEC says it is not going to happen, but we've heard that before," he said.

"I think we've just got to start cancelling a few significant orders to make the EEC realise that what's good for the goose is good for the gander," he said.

The Europeans will have the opportunity to call Mr. Anthony's bluff this week—if that is what it is.

This time, it's a threat which Brussels cannot afford to ignore

AUSTRALIA'S tough tactics are deeply revealing about the difficulties and tensions in its relations with the European Community.

Senior Ministers followed up their harsh public threats of trade reprisals against the EEC with a political roughing up in Canberra for Mr. Finn Olof Gundelach which reportedly left the Community's Agriculture Commissioner shaken and angry.

But there can be no doubt that he will bring back to Brussels precisely the message which Canberra was determined to drive home: Australia is tired of its grievances being ignored by

the Nine and unless there is some redress then a political and trading relationship of increasing importance to the EEC will suffer.

While there is by no means a common view among the Nine as to the justice of the Australian cause, there is a steadily growing appreciation that the Community needs better political and trading relations with the Antipodes.

Rib in the coal and uranium which the Nine will need to tap in their ambitious struggle to reduce dependence on imported oil, Australia is also a major potential market for the Com-

munity's exports. A recent Commission paper entitled "Australia and the Community—a new relationship" underlined the point.

Australia has 17 per cent of the free world's uranium reserves, is an exporter of coal and within a decade could be the non-Communist world's biggest aluminium producer.

The achievements of the last four years, which have seen a 28 per cent increase to £1.72bn in the Community's sales to Australia, could indeed be threatened by restrictive trade measures for the simple reason that most of Australia's tariffs

are not bound by GATT agreements.

The Nine are irritated by Australian complaints about CAP barriers to its farm exports to the EEC, because they are made from inside a protectionist glasshouse. Average Australian manufactured goods are 16 per cent compared to the EEC's 1 per cent on Australian goods.

Australia has already demonstrated a limited readiness to use the trade lever by withholding formal ratification of modest concessions it made during bilateral negotiations with the Community within the GATT framework last year.

But the fervour with which such EEC members as France and Ireland protect their national interests in the CAP limits the Community's scope for agreeing concessions on Australian farm products in return for lower tariffs on European manufactured goods.

Australia has already demonstrated a limited readiness to use the trade lever by withholding formal ratification of modest concessions it made during bilateral negotiations with the Community within the GATT framework last year.

Although narrow in scope, the agreement was supposed to chart a new way forward for EEC-Australia relations.

While needing both to preserve and develop its exports to Australia, the EEC also has an increasing need to buy that country's energy-related raw materials on the most favourable terms possible. Sensitive negotiations are currently under way between Euratom and the Australian Government on safeguards to be applied to the future supply of uranium and Prime Minister Fraser has hinted that these might not be

insulated from a major deterioration in relations.

There are also broader political reasons for the EEC to be

on good terms with Canberra. Australia and New Zealand are seen as important stabilising influences in the Pacific and Far East with an important role to play as mediators in the increasingly difficult North-South disputes now emerging.

The scope for granting Australia the "equality of trading opportunity" to sell more of its farm products into the EEC is limited by the Community's

growing self sufficiency in a wide range of produce and by its preferential agreements with Mediterranean and Lomé Convention countries.

However, a major contribution to better relations would be a sensible reform of the CAP so that the Community has fewer surpluses of dairy produce, sugar and some grains to sell at subsidised prices on world markets. This is the problem which the EEC is supposed to tackle next year within the context of internal budgetary reforms.

ITC rejects Carter car plea

BY DAVID BUCHAN IN WASHINGTON

A semi-independent U.S. trade panel has so far refused to be pushed by political pressure from President Carter and a majority of Senators into speeding up its investigation into the effects of imports on the U.S. car industry.

The U.S. International Trade Commission rejected on Friday by four votes to one Mr. Carter's request for an accelerated car import ruling by September or early October. That request paralleled one made by some 51 Senators.

Normally, the ITC would have six months to consider the complaint brought by the United

Auto Workers Union (UAW) in mid-June. Import penetration, especially from Japan, has risen to over a quarter of the market, and is undoubtedly a major factor in the Detroit-based industry's woes. Unemployment among UAW members now runs at 25 per cent.

The ITC evidently does not want to be rushed into a complex suit, in which the UAW is asking for a higher tariff to reduce car imports. However, the Commission said its Friday decision was not final, and other ways might be found to accommodate Mr. Carter's desire for a speedy decision.

The President has the final say on any ITC finding. He has thus far promised to help the car industry in several ways, but not by restricting imports. However, if the ITC were to make its recommendations soon, he would be in a position to order tariff relief for the domestic car industry in the run-up to the November election.

Aid measures promised by the Administration to the car industry this month include a postponement in new exhaust emission standards and credit for hard pressed car dealers.

World Economic Indicators

	TRADE STATISTICS			
	June '80	May '80	Apr. '80	June '79
UK £bn Exports	4.010	3.973	3.885	3.4
Imports	4.027	3.991	4.149	3.8
Balance	-0.017	-0.018	-0.264	-0.4
France Fr bn Exports	49,763	38,322	42,186	34,946
Imports	46,580	45,558	44,330	35,987
Balance	-3,187	-7,230	-2,044	-1,141
U.S. \$bn Exports	17,676	18,466	18,334	13,882
Imports	20,528	19,308	20,407	16,342
Balance	-2,850	-0,840	-2,003	-2,460
Italy Lira bn Exports	5,575	5,411	5,617	5,014
Imports	7,088	6,921	7,001	5,716
Balance	-1,513	-1,510	-1,384	-706
Germany DM bn Exports	28,90	30,14	31,30	26,99
Imports	28,40	29,04	29,30	24,99
Balance	+0.30	+1.10	+2.00	+2.00
Japan \$bn Exports	9,850	10,483	9,399	8,809
Imports	10,680	10,526	9,588	7,338
Balance	-0,830	-0,043	-0,167	+0,471
Holland Fl bn Exports	12,550	13,315	12,557	10,044
Imports	12,958	14,053	12,701	10,287
Balance	-0,408	-0,738	-0,144	-0,243
Feb. '80 Jan. '80 Dec. '79				Feb. '79
Belgium Fr bn Exports	169,400	155,700	137,800	124,327
Imports	185,900	181,768	152,600	128,160
Balance	-16,500	-26,068	-14,800	-1,833

SHIPPING REPORT

Dry cargo rates easing

By William Hall,
Shipping Correspondent

THE KEY U.S. Gulf/Continent grain rate appears to have stabilised at around \$15 per tonne after its sharp fall over the past month. However, most other rates in the dry cargo markets have tended to ease both in the Atlantic and the Pacific over the past week.

Aside from the downturn in world trade one of the main factors behind the current weakness in the dry cargo market is the increasing number of combined oil/bulk carriers that have switched out of oil and into dry bulk to take advantage of the buoyant freight rates.

John L Jacobs, the London shipping brokers, reports that the amount of combined carrier tonnage operating in the oil trades has fallen to 26 per cent of the total fleet—its lowest level since it first started keeping records.

At the end of January there were 197 combination vessels of 20,500 dwt in the oil trades. By the end of June the fleet had dropped to 122 combination carriers, totalling 12.2m dwt. As the total bulk carrier fleet of between 80,000 dwt and 150,000 dwt only amounts to 158 vessels totalling 17.8m dwt (Fearnley and Eggers' figures) the influx of another 75 ships totalling 8.3m dwt is the equivalent of a near 50 per cent increase in the fleet.

The large increase in the number of bulk carriers of around 100,000 dwt operating in the dry bulk trades has taken its toll on freight rates, for this size of vessel. According to the latest figures from the General Council of British Shipping (GCB), there has been no growth in the tramp trip charter index for vessels of 85,000 dwt and over, in the first half of 1980.

By contrast smaller bulk carriers in the 35,000 dwt to 50,000 dwt size group have seen their freight rates (on the basis of the GCB index) rise by around a fifth so far this year and over the last 12 months, rates are up by some 55 per cent.

In the oil tanker markets the outlook for the larger vessels shows no sign of improvement.

Success can be very unsettling. About a year ago Applied Packaging of Woolwich asked us if we could put a roof over their expanding young business.

They needed an additional 10,000 sq.ft. urgently.

We didn't keep them waiting.

In a matter of months, what was an enthusiastic young outfit has mushroomed into a group of seven fast expanding companies.

This in turn has led to an ambitious export programme.

The upshot was a recent phone call to our offices.

"Is that the London Industrial Centre? It's John Brown, Applied Packaging here—remember you

helped us find 10,000 sq.ft. six months ago. Well, squeeze, squeeze, would you believe we

now need another much bigger

site for a third factory—can you

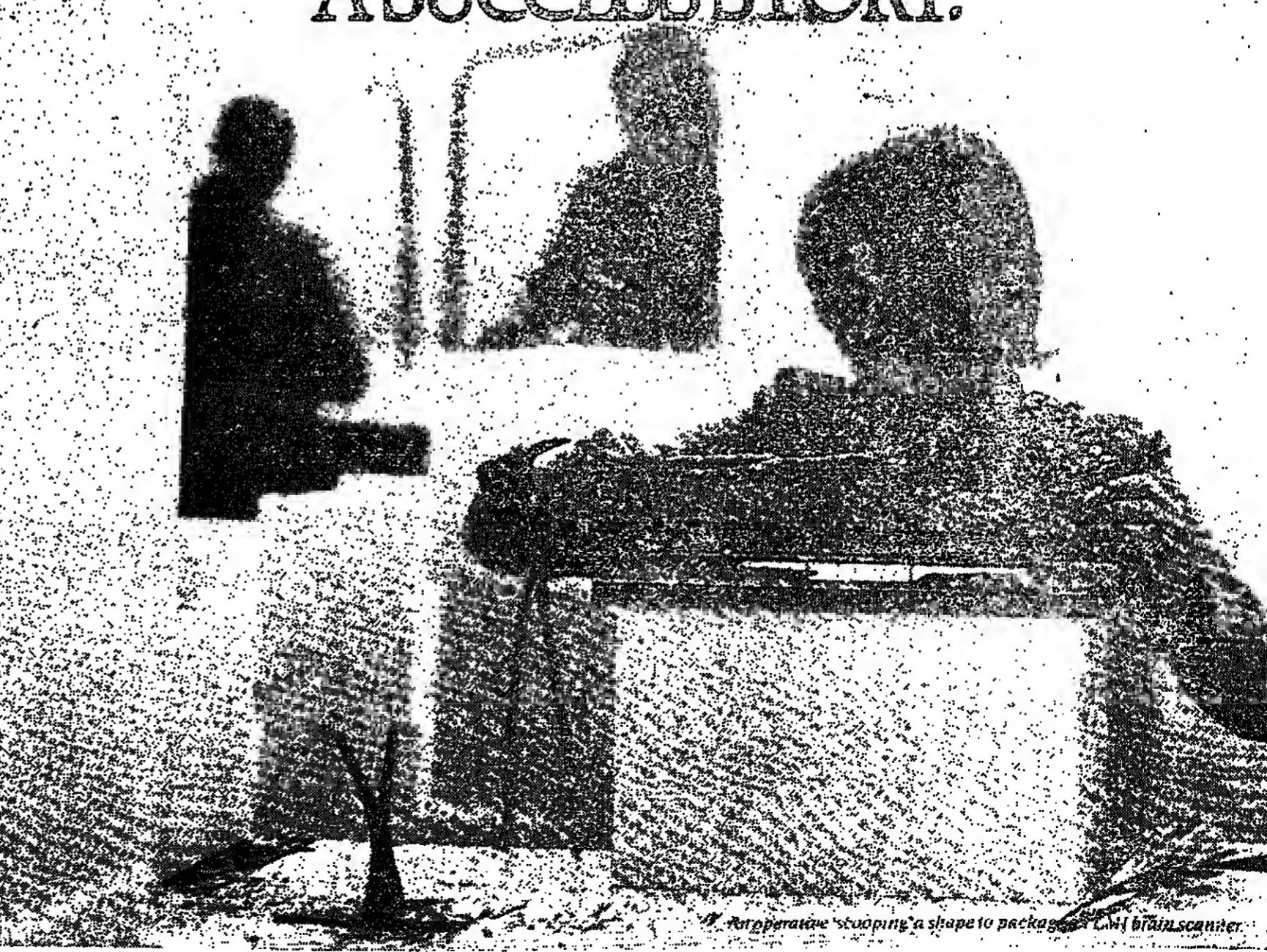
help us once again?" Which is exactly what we're doing.

The London Industrial Centre has been specially set up to help young companies make the best use of the many business facilities and opportunities London has to offer.

If your order book is literally

going through the roof, or about

to ring 01-633 2424 for immediate action.



TENDERS MUST BE LODGED NOT LATER THAN 10.00 A.M. ON WEDNESDAY, 23rd JULY, 1980 AT THE BANK OF ENGLAND, NEW ISSUES, WATLING STREET, LONDON, EC4M 9AA OR NOT LATER THAN 3.30 P.M. ON TUESDAY, 22nd JULY, 1980 AT ANY OF THE BRANCHES OF THE BANK OF ENGLAND OR AT THE GLASGOW AGENCY OF THE BANK OF ENGLAND. TENDERS MUST BE IN SEALED ENVELOPES MARKED "TREASURY TENDER".

ISSUE OF £1,200,000,000

11½ per cent Treasury Stock 1991

MINIMUM TENDER PRICE £94.00 PER CENT

PAYABLE AS FOLLOWS:

Opposite with tender	£200 per cent
On Friday, 22nd August 1980	£300 per cent
On Friday, 26th September 1980	Balance of purchase money

INTEREST PAYABLE HALF-YEARLY ON 10th JANUARY AND 10th JULY

This Stock is an investment falling within Part II of the First Schedule to the Trustee Investments Act 1981. Application has been made to the Council of the Stock Exchange for the Stock to be admitted to the Official List.

THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorised to receive tenders for £1,000,000,000 of the above Stock; the balance of £200,000,000 has been reserved for the National Debt Commissioners for public funds under their management.

The principal of and interest on the Stock will be a charge on the National Loans Fund, with recourse to the Consolidated Fund of the United Kingdom. The Stock will be repaid at par on 10th January 1991.

The Stock will be registered at the Bank of Ireland, Belfast, and will be transferable in multiples of one new penny, by instrument in writing in accordance with the Stock Transfer Act 1963. Transfers will be free of stamp duty.

Interest will be payable half-yearly on 10th January and 10th July. Income tax will be deducted from payments of interest less 25 pence annum. Interest payments will be transmitted by post. The first payment will be due on 10th January 1981 at the rate of £4.2172 per £100 of the Stock.

Tenders must be lodged not later than 10.00 a.m. on Wednesday, 23rd July 1980 at the Bank of England, New Issues, Watling Street, London, EC4M 9AA or not later than 10.00 a.m. on Tuesday, 22nd July 1980 at any of the Branches of the Bank of England or at the Glasgow Agency of the Bank of England. Each tender must be for one amount and at one price. The minimum price, below which tenders will not be accepted, is £94.00 per cent. Tenders must be made at the minimum price or at higher prices which are multiples of 25p. Tenders lodged without a price being stated will be deemed to have been made at the minimum price.

A separate cheque representing a deposit of 200 per cent of the nominal amount tendered for each tender, cheques must be drawn on a bank in the United Kingdom, the Channel Islands or the Isle of Man. Tenders must be in sealed envelopes marked "Treasury Tender".

Tenders must be for a minimum of £100 Stock and for multiples of Stock as follows:—

Amount of Stock tendered for	Multiples
£100—£2,000	£100
£2,000—£5,000	£500
£5,000—£20,000	£1,000
£20,000—£100,000	£5,000
£100,000 or greater	£10,000

Her Majesty's Treasury reserve the right to reject any tender or to allot a lesser amount than that tendered for. If undersubscribed, the Stock will be allotted at the minimum price, the balance of Stock not tendered for being allotted at the minimum price by the Governor and Company of the Bank of England. Issue Date: 23rd July 1980. It is a condition of all allotments that the lowest price at which any tender is accepted (the allotment price), and tenders accepted at prices above the allotment price will be allotted in full.

Letters of allotment in respect of Stock allotted, being the only form in which the Stock may be transferred prior to registration, will be dispatched by post at the earliest opportunity, but no later than 10th August 1980. The date of issue of the balance of the amount paid as deposit, may be at the discretion of the Bank of England or withheld until the tenderer's cheque has been paid.

In the event of such withholding, the tenderer will be notified by letter of the Bank of England of the acceptance of his tender and of the amount of Stock allotted to him, subject in each case to payment of his cheque, but such notification will confer no right on the tenderer to transfer the Stock so allocated.

No allotment will be made for an amount less than £100 Stock. In the event of cancellation, the right of allotment prior to deposit will be retained, but will be restricted to cheques demarshalled at the rate of the tenderer. If no allotment is made the amount paid as deposit will be returned likewise.

Payment in full may be made at any time after allotment but no discount will be allowed on such payment. Interest at the rate of 1 per cent per annum over the Bank of England Minimum Lending Rate on day-to-day basis may be charged on any overdue amount. Details of the terms of payment and the payment of any amount in respect of the Stock will render the allotment of such Stock liable to cancellation and any amount previously paid liable to forfeiture.

Letters of allotment may be split into denominations of multiples of £100 on written request received by the Bank of England, New Issues, Watling Street, London, EC4M 9AA, or by one of the Branches of the Bank of England, on any date not later than 24th September 1980. Such allotments must be signed and must be accompanied by the letters of allotment (but a letter cannot be split if all instalment payment is overdue).

Letters of allotment must be surrendered for registration, accompanied by a completed registration form, when the balance of the purchase money is paid, unless payment in full has been made before the due date, in which case they must be surrendered for registration not later than 26th September, 1980.

Until the close of business on 8th December 1980 Stock issued in accordance with this prospectus will be known as 11½ per cent Treasury Stock, 1991 "A"; the last date for lodgment at the Bank of England of tenders of "A" Stock will be 4th October 1980. The interest due on 10th January 1981 will be paid quarterly on existing holdings of 11½ per cent Treasury Stock, 1991 and on holdings of 11½ per cent convertible interest mandatorily or otherwise, for income tax exemption purposes. In respect of other holdings, interest will not be applied to the payment of interest due on 10th January 1981 on holdings of "A" Stock. From the opening of business on 9th December 1980 the "A" Stock will be amalgamated with the existing Stock.

Tender forms and copies of this prospectus may be obtained at the Bank of England, New Issues, Watling Street, London, EC4M 9AA, or at any of the Branches of the Bank of England, or at the Glasgow Agency of the Bank of England; at the Bank of Ireland, P.O. Box 13, Donegal Place, Belfast, BT1 5BX; at Muliens & Co., 15 Moorgate, London, EC2R 6AN; or at any office of the Stock Exchange in the United Kingdom.

BANK OF ENGLAND
LONDON
18th July 1980.

THIS FORM MAY BE USED

TENDER FORM

This form must be lodged not later than 10.00 a.m. on Wednesday, 23rd July 1980 at the Bank of England, New Issues, Watling Street, London EC4M 9AA or not later than 3.30 p.m. on Tuesday, 22nd July 1980 at any of the Branches of the Bank of England or at the Glasgow Agency of the Bank of England. Tenders must be in sealed envelopes marked "Treasury Tender".

ISSUE OF £1,200,000,000

11½ per cent Treasury Stock 1991

MINIMUM TENDER PRICE £94.00 PER CENT

TO THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND
I/We tender in accordance with the terms of the prospectus dated 18th July 1980 as follows:—

Amount of above-mentioned Stock tendered for, being a minimum of £100 and in a multiple as follows:—

Amount of Stock tendered for	Multiple	NOMINAL AMOUNT OF STOCK
£100—£2,000	£100	
£2,000—£5,000	£500	
£5,000—£20,000	£1,000	
£20,000—£100,000	£5,000	
£100,000 or greater	£10,000	

The price tendered per £100 Stock, being a multiple of 25p and not less than the minimum tender price of £94.00.

Amount of deposit enclosed, being £20.00 per cent of the nominal amount of Stock tendered for:—

£	TENDER PRICE (£)
£ : p	

£	AMOUNT OF DEPOSIT (£)
£	

I/We hereby engage to pay the instalments as they shall become due on my allotment that may be made in respect of this tender, as provided by the said prospectus.

I/We request that any letter of allotment in respect of Stock allotted to me/us be sent by post at my/our risk to me/us at the address shown below.

JULY 1980 SIGNATURE
or, or on behalf of, tenderer

PLEASE USE BLOCK LETTERS

MR/MRS FORENAME(S) IN FULL SURNAME

FULL POSTAL ADDRESS:-

FT POST-TOWN COUNTY POSTCODE

STAMP OF LOADING AGENT (IF ANY)

a The price tendered must be a multiple of 25p and not less than the minimum tender price of £94.00. The tender will be deemed to have been made at the minimum tender price. Each tender must be for one amount and at one price.

b A separate cheque must accompany each tender. Cheques should be made payable to "Bank of England" and crossed "Treasury Stock". Cheques must be drawn on a bank in, and be payable in, the United Kingdom, the Channel Islands or the Isle of Man.

Delays in nuclear expansion scheme

By Martin Dickson, Energy Correspondent

CONSTRUCTION work on two nuclear power stations, scheduled to start in August, is now expected to be delayed until next year. The development is an embarrassment to the electricity supply industry and a setback to the Government's ambitions for a nuclear expansion timetable, which has already shown signs of slipping.

The new delays concern two stations of the advanced gas-cooled reactor (AGR) design, one to be built for the Central Electricity Generating Board at Heysham in Lancashire and the other for the South of Scotland Electricity Board at Torness in Scotland.

The start of construction is expected to be put back by between six and nine months because the boards have still not completed their design and safety plans. It will be the second delay for this reason.

Construction was originally intended to begin last spring, but was put back until August.

The delay is embarrassing to the boards because earlier this year, when the Government was debating whether to proceed with the two AGRs, the supply industry urged that the two be built as quickly as possible.

However, the boards are anxious to ensure that the detailed design and safety plans for the stations are in order, as to avoid the late modifications which bedevilled earlier AGR construction programmes.

The two plants are meant to be close copies of the Hinkley Point "B" station in Somerset designed in the 1960s, but will incorporate significant modifications, notably extra fuel channels and an enlarged reactor diameter.

The delays could increase the cost of the stations, currently put at £1.25bn for Heysham and £1.2bn for Torness, with additional interest charges of £200m on each.

Sig. Antonio Giolitti, the European Commissioner for Regional Policy, announced the list of recipients during a weekend visit to Northern Ireland.

Although he hoped the aid would enhance job prospects,

CBI presses for faster regional grant payments

BY RAY PERMAN, SCOTTISH CORRESPONDENT

INCREASING DELAYS in payment of regional development grants, causing some small companies severe cash-flow problems, will this week be raised by the Confederation of British Industry at a meeting with Sir Keith Joseph, Industry Secretary.

The CBI said yesterday that it had already "protested vehemently" to the Government over the delays, and that employers' associations were concerned.

Last year the Government ordered a four-month pause in grants payment, as an economy measure. But reports from Scotland, the North-East and North-West of England, and Wales, indicate that some applicants wait eight months to a year for money.

Regional grants of 20-22 per cent of cost of new plant or buildings are intended to encourage companies in areas of high unemployment to invest. But the Government's clampdown on industry spending and long periods companies wait for money are deterring applications.

Grants are paid by the regional offices of the Department of Industry. Recently there was criticism of the offices in Glasgow, Cardiff, Birmingham and Bootle for slow processing.

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UK NEWS - LABOUR

Callaghan hits at Tory job record at Tolpuddle rally

BY ELIJAH GOODMAN, LOBBY STAFF

MR. JAMES CALLAGHAN, leader of the Labour Party Opposition, yesterday launched his most bitter attack yet on the Government's employment policies when he spoke at the Tolpuddle Martyrs' Memorial Rally.

At the rally, which is always an emotional occasion for the country's union movement, he accused Mrs. Thatcher's Government of "intolerable and inhuman" complicity.

Mrs. Thatcher, he said, was dodging her responsibilities and was standing aside while whole industries collapsed. All Government's since 1979, he said, had until now accepted that it was their responsibility to seek to maintain a high and stable level of employment.

In contrast, the "Thatcher Government, under the personal direction of the Prime Minister herself, has, for the first time,

forsworn any responsibility for maintaining a high level of employment." The country, he claimed, would accept nothing less than a complete change of policies.

Mr. Callaghan's attack is regarded as a foretaste of the protest which the Opposition is planning to unleash in the Commons tomorrow when the unemployment figures are announced.

Mr. Callaghan has asked all Labour MPs to be in the chamber for Prime Minister's Question Time in an attempt to orchestrate a sustained attack on the figures, which he predicted yesterday would be the worst since 1980.

His criticisms came as further indications emerged that both Ministers and some Tory MPs are becoming increasingly gloomy about the job outlook. Mr. Callaghan is hoping to build on this tomorrow.

package of remedial measures to help cut particular kinds of unemployment. As yet no figures have been put on the value of these measures, but pressure for a generous package is almost certain to intensify as the unemployment figures get worse and Conservative backbenchers see the consequences of this in their constituencies.

The aim seems to be to announce the package in the autumn when some Ministers believe that the Opposition's message in Parliament about the effect of the Government's policies on jobs may be having an impact on the electorate.

Over the past few weeks, the Parliamentary Labour Party has begun to co-ordinate its opposition on the Government's employment record. Mr. Callaghan is hoping to build on this tomorrow.

Fresh moves over the Observer

BY PHILIP BASSETT, LABOUR STAFF

PRESE REPORTS will be made tomorrow by the Advisory, Conciliation and Arbitration Service to resolve the pay dispute at the Observer which has caused the newspaper's management to issue a formal 90-day notice of the paper's closure.

The union at the centre of the dispute—the National Graphical Association, representing print craftsmen—requested the meeting with Mr. Jim Mortimer, the ACAS chairman. Its purpose is to explain fully the progress on negotiations with the Observer on new rates for the 50 machine-managers in the TUC's printing industry committee.

Mr. Len Murray, the TUC general secretary, who returned at the weekend from an official visit abroad, will study the position and Mr. Keys' request today and is likely to reply

immediately to Mr. Keys' proposal.

The Observer yesterday confirmed its position, both by publishing in full its own board statement, announcing the closure notices, and by declaring in its editorial column that the newspaper could only reach agreements "that allow it to be self-supporting."

Both sides in the BBC dispute over cuts in the Corporation's orchestra, which has caused the first of this year's official Promenade concerts to be abandoned, are also due to see ACAS today to discuss the idea of mediation.

Further inter-union wrangling is expected today at a meeting of the TUC's finance and general purposes committee, which is faced with taking a decision on calling on the unions involved in the Isle of Grain power station dispute to follow the TUC's proposals for ending the dispute.

The issue, which will also come before the TUC general council this week, was further exacerbated at the weekend by strong criticism of the TUC's position from Mr. Frank Chapple, the general secretary of the Electrical and Plumbing Trades Union.

If approved at today's meeting of the TUC liaison committee, the document will have to be formally agreed by the executives of both the Labour Party and the TUC.

Labour and TUC plan to boost economy

By Our Lobby Staff
TRADE UNION and Labour Party leaders will today try to agree on a new joint economic strategy based on a major refutation of the economy. Fundamental to the strategy will be the imposition of selective import controls to ensure that the additional demand stimulated by it is not filled by imported goods but instead helps to boost sales of British goods.

Also suggested is the creation of a new State-owned investment bank and the introduction of planning agreement—both of which have long been discussed by the Labour Party.

A draft statement of the strategy is believed to avoid the sensitive issues of incomes policy. This is despite the fact that both Mr. James Callaghan, the Labour leader, and Mr. Denis Healey, the shadow Chancellor, still believe that some kind of agreement with the unions over wages should be an essential part of a future Labour Government's economic strategy.

The document has been substantially revised since it was last discussed by the TUC liaison committee. At that time Mr. Callaghan argued that it should concentrate more on attacking the present Government's policies and less on trying to create new policies for a Labour Government.

Others complained that it did not sufficiently analyse the reasons behind Britain's decline. But the proposals seemed to have stayed broadly the same despite the revision.

As far as import controls are concerned, the document makes it clear that they should be aimed at reducing imports from other industrialised countries rather than from the developing world.

No sectors are named as

specifically needing such protection, but the idea seems to be that import penetration ceilings would be introduced across a wide range of industries to ensure that imports did not increase their share of the British market.

If approved at today's meeting of the TUC liaison committee, the document will have to be formally agreed by the executives of both the Labour Party and the TUC.

Anchor Chemical chairman change

Mr. Bryan B. Pugh has become chairman of ANCHOR CHEMICAL in place of Mr. H. K. Just, who has resigned from that position but continues as a non-executive director.

Mr. Just, who was appointed chairman last year following the sudden death of Lord Hewitt, offered his resignation as chairman because of demands made upon him as chief executive of Sartorius Industries Inc., of the U.S.

Mr. Michael Towns is leaving UNITED RUM MERCHANTS to take up an appointment as chairman of URM, which will become chief executive of that company. He is a director of Booker McConnell and chairman of the group's spirit, liqueurs and international trading division. Mr. Stanley Thompson, at present

deputy managing director of URM, will become vice-chairman.

Sir William Morris has been appointed to the Board of LLOYDS BANK INTERNSATIONAL from September 1.

He will succeed Mr. Harry Baskey, who will retire at the end of that month. Sir Willie retired from the Foreign and Commonwealth Office in 1979. His last post was UK Ambassador to Cairo.

Mr. M. R. Lather, executive director of Lloyd Bank International, has been appointed chairman of the OVERSEAS AND COMMONWEALTH BANKS ASSOCIATION for 1980-81. The chairman is Mr. Ronald S. T. Robbins, manager of the chief London branch of Canadian Imperial Bank of Commerce.

INSURANCE

Judging burglar alarm clauses

BY OUR INSURANCE CORRESPONDENT

IT HAS long been insurers' normal practice, when providing crime-loss cover on goods attractive to thieves, to require the installation and maintenance of anti-theft devices. Where, for example, insurers stipulate burglar-alarm, they put into the policy they issue a particular clause.

This requires the policy-holder to keep the alarm in efficient working order, to keep it under a proper maintenance contract with the burglar-alarm company fitting it, to summon that company immediately there is any defect, and to have the alarm set and operational when premises are closed for business.

Though the purpose of all these clauses is the same, their precise wording varies from insurer to insurer, as does their legal nature. Sometimes the clauses are written as warranties, so that breach goes to the root of the contract.

But more often they are written as conditions precedent to liability, or simply as exclusions. Wherever possible, the practice of the courts now seems to be to construe such clauses as exclusions, applicable if at all, to the particular claim when it occurs.

Of interest to policy-holders with burglar alarm installations is insurance brokers, and to insurers themselves, is the report of the dispute in Melik and Co. v. Norwich Union, on which Mr. Justice Woolf recently gave judgment. The case is reported in [1980] 1 Lloyd's Rep. 523 and noted at para. 127 of the June issue of Current Law.

Melik and Co., through brokers, had burglary cover with Norwich Union. A clause in the policy required the burglar alarm to be kept in efficient working order and in full operation at all times when the premises were closed. The alarm was of the silent kind that sends a warning to the alarm company's control centre.

Undoubtedly it is possible for insurers to devise words apt to deal with both installation and communication and to eliminate the interpretation of the word "kept" adopted by the judge.

But is this reasonable? In the case of most hazardous goods, insurers would doubtless say "Yes." But as ever, policy-holders and their brokers may disagree with them.

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Hewlett-Packard in Great Britain.

Hewlett-Packard Limited is a major British company—currently 560th in 'The Times' 1000 list, with a turnover exceeding £75 million. HP Ltd. employs over 1500 people—half in manufacturing and half in sales and customer support.

A working partnership.

A working partnership with customers is Hewlett-Packard's approach to business, from the definition and fulfilment of computation needs to providing first rate after-sales service. Computer systems support services offer a choice of options tailored to our customers' needs. They range from planning and installation, training and consulting, software support, through to hardware maintenance and computer supplies. HP has invested heavily to support systems sales with customer support centres, throughout the UK. As well as extensive on-site training programmes in customers' premises, HP runs two major training centres of its own—at Manchester and Winnersh, near Reading.

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For a free copy, write to: Ken Peck, Hewlett-Packard Ltd., Winnersh, Wokingham, Berkshire, RG11 5AR.



"Our HP3000 systems helped to increase our profitability, improved merchandising control and minimised wastage."

—Roger Lawson, Data Processing Manager, Harris Queensway Group.

—David Stidolph, Data Processing Manager, BICC General Cables Limited.

At their modern Wrexham factory and warehouse BICC General Cables Limited manufacture and store conduit wiring, surface wiring and armoured cables for despatch to 31 regional depots which supply the electrical industry.

The problems of handling some 4,000 varieties of cable with differing colours, thicknesses and lengths led the company to install an HP1000 minicomputer to replace the ageing control system at their warehouse.

At the group's Orpington headquarters, the first system supports 35 terminals co-ordinating sales analysis, stock control and merchandising information for the group's 360 retail outlets throughout the country, as well as performing most of the day-to-day accounting transactions—purchase, sales and nominal ledgers. A further HP3000 is being added to cope with the continually expanding requirements.

At the group's central carpet warehouse at Swanley the second HP3000 with 20 terminals controls the movement of supplies and orders. Customer requirements are 'phoned through daily to the warehouse and immediately entered into the system which prints the next day's cutting and dispatch instructions. Cutting wastage has been significantly reduced and control over manufacturers' supplies is much tighter.

Says Roger Lawson, "We were impressed by the HP3000's excellent operating system with its integrated IMAGE data base. QUERY (the data base enquiry language) gives us instant access to vital information. Our DP costs are, only a small proportion of our turnover, yet the increase in efficiency is substantial."

hp HEWLETT
PACKARD

Technical News

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

• COMMUNICATIONS

Will transmit data around the plant

SINCE INTERSIL, the U.S. semiconductor company took over Datel for \$16m cash last year the two companies have been working towards a concerted approach to digital industrial communications systems with the emphasis on data acquisition.

The company, which had revenues of \$140m in 1979, has been growing at 20 per cent per annum and has now announced a number of new products in both device and system areas.

One of the most interesting has been named Remdas and

it allows automatic polling and digital data transmission from up to 256 remote stations with 12 bit accuracy over a single pair line. The cost per channel can be as low as £20. Remote station cards digitise analogue data, supply control output, perform multiplexing and analogue to digital conversion and communicate in serial mode with a receiver/transmitter card at the host computer location. The remote units can be up to a mile away.

Thus, in complex control system environments, the sub-

stantial quantities of cabling normally encountered are done away with.

The company sees a large future market for this kind of equipment, perceiving the trends in control technique in terms of more and more distributed intelligence, the use of digital transducers, solid state motor control and in general the reduction of the number of people interposed in the control loop.

To help potential users in assessing the product, the company is offering evaluation kits costing £880 in three configurations.

In the device area the company has announced the ADCS17, a compact hybrid device for analogue to digital conversion with a conversion time of only two microseconds. The circuit has five pin-programmable input voltage ranges and serial or parallel data output.

Other devices include a new liquid crystal display driver and a low noise chopper stabilised operational amplifier.

More from Intersil (UK), Snapgrove House, Basing View, Basingstoke, Hants RG21 2YS (0256 57361).

Terminal equipment

A FURTHER generation of communications terminal equipment has been announced by Sperry Univac, designated UTS 4000.

It consists of a range of Tele-type compatible equipment including the UTS 4020 cluster controller, two displays UTS 10 and 20, the latter for editing, and the UTS 40 user programmable VDU.

The cluster controller can support up to 12 of the UTS 20 workstations and is designed for on-line and interactive processing. Some 16 peripheral devices can be accommodated.

Both the 10 and 20 workstations have 12 inch CRT and detached keyboard; UTS 40 has 236 1010.

• TRANSLATION

Electronic phrase book

ALTHOUGH THE device that will translate what is fed into it into another language is still a long way off, a useful half-way house has emerged from Sharp Corporation in Japan.

It is a pocket calculator-sized keyboard and liquid crystal display unit into which modules can be plugged to allow translation of 150 selected, frequently used sentences into another tongue.

There are 14 categories of businessman's/tourist's activities ranging from things that might have to be asked at airport and customs to sightseeing.

A search function using the

same size screen but a selection of four pluggable keyboards is available, and it can be programmed using UTS Cobol which is offered on the company's 90, 90 and 1100 host systems. The terminal can have up to 64k bytes of user memory.

Program cartridges plug into the back of the devices to provide different functions and these also make it possible to update the system with new circuitry.

The system and application development software offered includes control program, UTS Cobol, interactive program generator and edit processor.

More from 65 Holborn Viaduct, London EC1P 1AB (01 236 1010).

• PUBLICATIONS

Maintaining sewers

LESS THAN 5 per cent of England's 124,000 miles of public sewers are large enough for a man to enter—the rest can only be inspected by closed circuit television.

Internal sewer surveillance is expensive, and a programme to inspect every UK public sewer once every 20 years would cost about £6m a year in contract payments (excluding pre-cleaning and additional labour) and, putting the matter into perspective, a 1 per cent renewal programme would cost roughly £200m a year.

Obtaining the best value for money from surveys, improving understanding of sewer damage and deterioration in order to limit the proportion of sewers requiring examination, and learning which defects are serious enough to justify attention, are problems facing the National Water Council's standing technical committee on sewers and water mains.

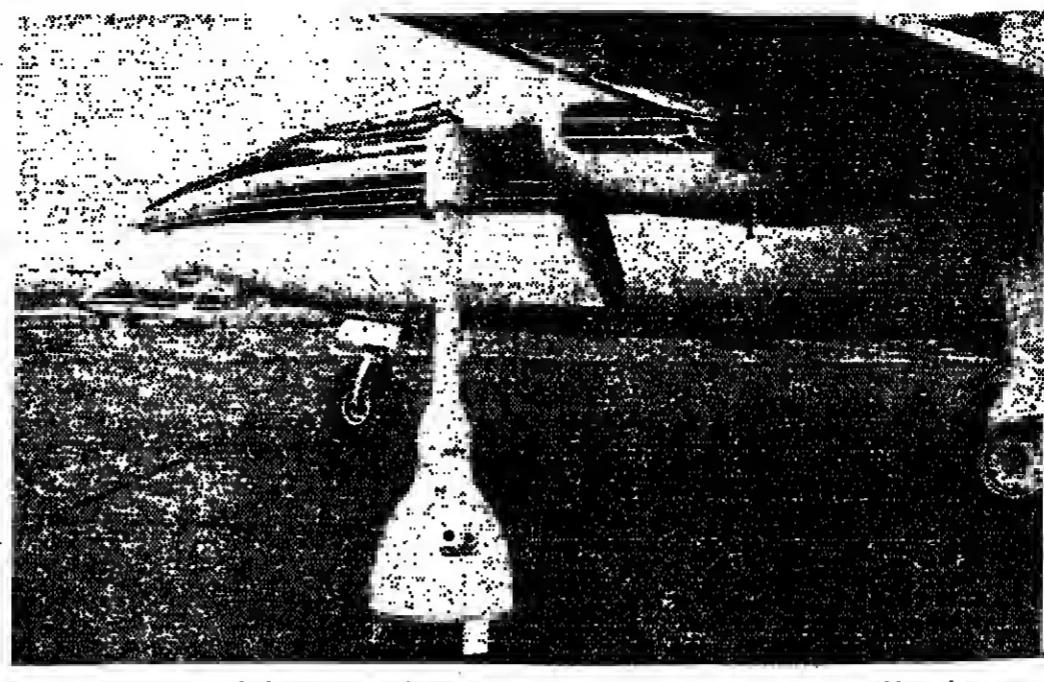
The unit has a dot liquid crystal display of 23 characters which will roll from left to right if more than 23 characters are involved. Modules are available for English, German, Spanish, French and Japanese; Italian and Portuguese will be available later.

More from Sharp House, Thorpe Road, Manchester (061 205 2333).

It has produced a report which sets out standard terminology and methods of recording the internal condition of both brick and pipe sewers.

"Manual of sewer condition classification"—now available at £6.10 plus 40p p & p from NWC Publications, 1 Queen Anne's Gate, London SW1 (01-222 8111).

• SECURITY



Placed close to a parked aeroplane, the Racal-MESL portable sensor provides an invisible radar screen which will detect anyone trying to gain access to it

Signals approach of intruders

ATTEMPTS TO tamper with an aircraft while they are unattended on the ground will be foiled by a new transportable radar alarm developed by Racal-MESL in Scotland.

The device was originally designed following a specific request from a major European airline. It weighs 12 kg and is of a vertical format that allows it to be concealed, for example,

under a conventional marker cone of the type often used at airports.

The area covered by the emitter at the top of the device can be accurately adjusted to suit the user's needs so that any intruder moving into the protected area (walking or crawling) will activate the alarm.

This can be a siren, flashing light or a radio link to some other warning system.

Racal states that traffic passing close to the protected zone or small animals or birds straying into the area will not trigger the system.

The company foresees many other uses for the device such as protection of high value lorry loads, and in storage areas.

More from the company at Preston Road, Linlithgow, West Lothian.

• DATA PROCESSING

ICL mini-computer prices cut

SOME 17,000 of ICL's 1500 Series minicomputers have now been sold throughout the world and as a result of the economics of scale and also some rationalisation of the range, price cuts averaging 25 per cent have become possible.

Thus, a basic 1501 machine with 8 kilobytes of storage costs just over £2,500 while the larger

10 megabyte disc system, suitable for use as a stand-alone or distributed processor, can be obtained for under £29,000. The previous 33 variants of this series have now been reduced to five, based on the 1501 and the larger screen 1505, both of which can be used independently or with a common disc system.

Maximum main storage on both models has been increased

to 32 kB and a new 5+5 megabyte fixed and exchangeable extension disc drive has been additionally made available.

There are also additions to the software including a new issue of the disc-based compiler and an improved business transaction language. Both disc and communications software have also been enhanced.

ICL is at Putney, London SW15 1SW (01-788 7273).

Scope of machines widened

EFFICIENCY AND scope of the work that can be carried out on the AM Variatype Comp/ Set phototypesetters has been extended by the release of two new software packages.

One of these allows the machines to be used in the so-called "foreground-background" mode in which two operations are able to progress at the same

time. One of the pairs of tasks available is edit/count in which the operator can be scrolling and editing text on the screen in "the foreground" while typesetting previously edited and counted text in "the background". Alternatively, the operator can key, count and record on to a floppy disc in the foreground while typesetting previously recorded text in the background.

A sort/merge routine has also become available; this allows alphabetical or numerical sorting to be carried out in the production of items such as classified advertisements, small directories and parts lists.

The new routines require additional floppy disc capacity and random access memory.

More from the company at 44 Church Street, Luton, Beds (0582 421711).

Building and Civil Engineering

£17m printing works award to Wimpey

FIRST PHASE of News International's new printing works in London E1 has been awarded to Wimpey Construction UK under a design and construct £17m contract.

Additional printing facilities will be provided at the building on a 13-acre site in Pennington Street. The 468,000 square foot steel framed main building will consist of both new and refurbished premises which promise ultimately to be one of the largest new industrial sites in London.

Project also includes site clearance which involves the breaking out of extensive foundations of dock warehouses previously on the site. Some of the existing warehouses are to be refurbished to form plant rooms and storage areas.

Piling work on site is now substantially complete and the first phase project is due for completion in November 1982.

Bristol region of the company is building a single storey warehouse at Cocklebury, Chippenham, Wilts, under a £639,000 contract from Warin Plastics.

New printing works award to Wimpey

£10.6m Laing contract

TRENT REGIONAL Health Authority has given the first phase for its third District General Hospital for Leicester-shire to John Laing Construction under a contract worth £10.6m.

It will be known as Glenfield District General Hospital and construction starts this summer. It should be completed in three years time. Buildings will then be commissioned and the first

patients could be admitted in the spring of 1984.

New hospital will be built in the grounds of the Leicester City Hospital on Groby Road, Leicester, and the two-storey building will be finished in brick to blend in with the new Community Hospital alongside.

Preliminary site works, including roads, have already been completed at a cost of £265,000.

Work has started on a new £4.7m staff restaurant to replace a 16-year-old building found to be inadequate for present demand at Gatwick Airport.

Three-storey building will have staff restaurant facilities on the ground floor with plant rooms and two floors of lettable office space above and will be of reinforced concrete with aluminium-framed bronze-lined glazing.

Work will be carried out by local company James Longley and Co., and is scheduled for completion towards the end of 1981.

Restaurant at Gatwick

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FURTHER development at the All England Lawn Tennis Club at Wimbledon is to be undertaken by W. S. Try. One of the main aims is to provide better seating on both North and South stands of No. 1 Court as well as provision of other improved facilities for spectators and players.

The contract is worth nearly £2m and it is planned to complete the project in time for next year's Championship.

Call or write Mr. Steven B. Cholm for additional details regarding the opportunities Colorado Technological Center presents for your clients or company.

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A development of MDC Corporation, Denver, Colorado

Factory in Cornwall

CONTRACT WORTH about £1m to build a factory for J. I. Case and Co. at Redruth, Cornwall, has been awarded to E. Thomas of Ponsonborth, member of Mowlem Group.

This is being built to meet the increasing demand for Case's range of construction equipment including crawler loaders and dozers and will employ about 200 people on the

project also includes site clearance which involves the breaking out of extensive foundations of dock warehouses previously on the site. Some of the existing warehouses are to be refurbished to form plant rooms and storage areas.

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They will sit more comfortably

W. S. Try (Midland) is undertaking the third contract which involves building nine warehousing units in three blocks at Buntingford Road, Northampton, for Lawson Hunt Industrial Developments.

The buildings—on a green field site—will have a concrete base and strip foundation formed on

dated ground, with power-float finish floors. An Alcost concrete column and steel roof frame structure is being used with plastic faced metal panel and brickwork cladding and with deep profile asbestos sheet roofing.

At Hanworth trading estate, Feltham, Middlesex, Y. J. Lovell (South) has started work for Standard Life Pension Funds on the construction of three single-storey warehousing units with integral double-storey office accommodation.

The estate is close to Heathrow airport and the M3 motorway. The units will have structural steel frames, power-float foundations, brick cladding and asbestos sheet cladding to the upper walls and roof.

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power-float finish floors. An Alcost concrete column and steel roof frame structure is being used with plastic faced metal panel and brickwork cladding and with deep profile asbestos sheet roofing.

Monk pipeline division is undertaking the work for British Gas and Wales Gas in a £702,469 group of contracts: at Eastington, Co. Durham, there is a rerouting of a pipeline; in the mountainous area of Wastwater, near Pontypool, some 2,400 metres of 12 inch welded steel pipeline; and at Maesteg, 7.2 km of 200 mm welded

THE MANAGEMENT PAGE

EDITED BY CHRISTOPHER LORENZ

How Reed is shifting its strategy from recovery to expansion

BY CHRISTOPHER LORENZ

MALCOLM GLENN has plenty of experience of ailing companies. A Briton with a top-notch pedigree as a North American turnaround specialist, he has just returned to Britain to sort out one of the country's best-known problem businesses. Not only have its profits slumped to practically close on zero over the last three years, but it is not particularly exposed to the deepening economic recession.

Faced with a similar wave of pressures, many managers in other companies are simply going under—or at best floundering, content to muddle through from day-to-day and week-to-week, leaving tomorrow to look after itself. Yet Glenn not only still devotes precious time to planning for the development of his various products and markets into the late 1980s, but takes most day-to-day decisions in the light of that plan.

"When a business starts to suffer, a poor management will take short-term decisions," he says. "A good one will get its longer-term priorities sorted out and stick to them—even if it means a painful couple of years in between."

This does not mean that Glenn is a slave to his plans; indeed, he and his parent company are currently discussing ways of making them more flexible. What it does imply is that a carefully planned short-and-long-term strategy underlies almost everything he does. Provided he can show his managers that while effective planning may increase central control and impinge upon their independence, it also helps them do their job, his approach will gradually percolate down his 12,000-man company.

Glenn is the new chief executive of Reed Decorative Products, the paint, wall-coverings and do-it-yourself division of



Reed International, one of the largest British-based multinationals. To the public, the division is best known for its wide range of "Crown" paints, its "Polytex" pastes and filters, and its stylish "Sanderson" wallpapers and fabrics.

To the business community, on the other hand, its image is largely negative. Under its traditional name of Wall Paper Manufacturers (WPM), it has had a troubled performance record for well over the 15 years that it has been part of Reed: it was taken over in 1965 by Reed's then chief, Don (now Lord) Ryder, as part of an ambitious expansion programme which ended in the mid-1970s with Reed taking a debt crisis.

Over the past three years, under Lord Ryder's successor, Sir Alex Jarratt, the Reed empire has been transformed from a debt-ridden, motley collection of businesses into a financially sound enterprise; its debt-equity ratio has been cut from almost 200 per cent to just 34 per cent, for example. Though still a conglomerate, it has been made more manageable, and is now—in general—very tightly run. Of the few remaining trouble spots, it is the sizeable wallcoverings side of Decorative Products which is in the most urgent need of restoration and repair.

The rapidity of Reed's

recovery has surprised even Sir Alex's most ardent admirers—and there were many even before this crowning success. The turnaround is the result of both the massive divestment programme undertaken since 1977—Reed has shed a third of its assets—and of an all-round tightening of the group's coordination and control.

Behind both lay not only the mind-concentrating clarity of a crisis, but a new and highly systematic planning-and-control system which has helped top management in three key ways: to clarify the group's overall direction, and then to steer along it; to reconcile the constituent businesses' competing claims for resources; and to strengthen the centre's operational control. As Malcolm Glenn has found, in troublesome subsidiaries in Canada and at home, the system is also proving increasingly helpful at divisional level and below.

Of these benefits, the most prized is perhaps the ability to judge between the relative value and potential of disparate businesses—"our apples and pears," as Sir Alex calls them.

An "interactive" planning system of this sort is relatively rare, even in those multi-product companies which can manage the agglomeration of businesses with which Jarratt initially had to deal: it was only three years ago that top management was forced to face the reality that Reed had as many as 60 different businesses, with precious little connection between them.

The influence of the new planning system on Reed's divestment programme should not be exaggerated: many of the disposals would have occurred anyway. But Jarratt is adamant that it played a significant role in several ways, including the choice of timing and acceptance or rejection of proffered prices.

Close observers of the programme will have noticed that Reed has frequently pulled back from selling troublesome businesses, before finally going ahead. The most obvious examples are two large paper mills, in Ontario, Canada, and Natal, South Africa, eventually sold for £38m and £57m respectively.

Rather than a sign of managerial vacillation, "this was partly the result of the more disciplined approach the company now takes to both divestment and diversification," says Jarratt. With the help of its "apples and pears" planning system, the board was armed throughout the three-year period with a series of detailed calculations of the cash flow and profit implications of selling a particular business at a particular price, and at a particular time. Without these, it might have been tempted to sell severer businesses just as fast as possible, and at giveaway prices.

This is not to claim that Reed was able accurately to forecast the best time to sell its unwanted assets. Instead the planning system gave management an indication of the likely implications of shedding one business or another, to any one of a number of possible circumstances.

The often misunderstood difference between planning and forecasting is also illustrated by the case of a second Canadian mill, in Quebec. At one stage, Quebec was together with Dryden on the "for sale" list. Then, in 1978-79, came a sharp increase in profitability, thanks in large measure to a revival of the newsprint market and a slump in the parity of the Canadian dollar; since Quebec is a substantial exporter, this boosted its competitiveness and profitability.

Quebec's improved performance contributed to a remarkable recovery of Reed's North American pulp, paper and packaging: from bare break-even in 1977-78, these North American operations turned in profits of £11m the next year, and more than double that amount in 1979-80, when their trading profit margin was nearly three times as high as that of the Reed empire as a whole.

None of Reed's planners would pretend they forecast the extent of Canada's recovery. It would be astonishing—and a fluke—if they had given the impossibility of accurate forecasting in today's business environment. The important thing is that they detected the right trends and warned the management of particular time. Without these, it might have been tempted to sell severer businesses just as fast as possible, and at giveaway prices.

With pulp and paper still a sharply cyclical business, Reed has not closed the door on the sale of Quebec. But for the moment it slots into the corporate portfolio as a healthy "cash cow," with a high price tag for any potential purchaser.

What if—or when—the cycle again plunges downwards? Even if Reed's planners do not succeed in forecasting the precise timing and shape of the downturn, they will have alerted the management to the likely short- and long-term impact of the various options for Quebec. This is just one example of what Jarratt calls "the what-if syndrome." More explicitly, he argues that Reed's planning has enabled it to take decisions "in a more structured way, having worked out what the implications will be."



Sir Alex Jarratt, Reed's chairman and chief executive (top), says its new planning system helps the board judge between the relative value of its disparate businesses—"our apples and pears." At divisional level, Malcolm Glenn (below) finds it helps him to "take a deep breath and have another look" at problems and performance; it also clarifies his relations with the centre



Getting a tighter grip on the grass roots

PLANNING IS not something detached from reality, that the long-haired boys do. It's a tool which forces you to think more deeply about the nature of the company you're managing. I don't know how you can run a business without trying to do it within certain sets of objectives and ways of achieving them."

The speaker is Sir Alex Jarratt, one of Britain's most enthusiastic yet realistic senior advocates of corporate planning. His enthusiasm is self-evident in the priority he has given to planning at Reed International since he took over in 1973. His realism is echoed in his warning that planning cannot replace the "intuition and hunch" which are so important in decision-making; instead, he argues, it helps structure and channel them.

Jarratt's commitment to planning goes back to his days at the Treasury in the mid-1950s.

But this is not to say that either he or his planners share the simplistic belief in single-line forecasts which have underpinned much of the misguided civil service planning of the past 20 years. One of the most intriguing elements of Reed's own planning is that alternative "scenarios" of the future are combined with a depth of statistical analysis which would be unacceptable to many top managers.

Jarratt recognises that it is the theoretical side of planning—"hockey-stick forecasting, and the rest"—which frightens many companies away from trying to mould their own future in a systematic fashion, even if this is the only way to avoid being swamped by all the unpredictable pressures of today's business environment.

With Reed now apparently poised on the brink of a new phase of expansion, both at home and abroad, Sir Alex's

faith in the value of its planning effort faces a particularly stiff test. In the renewed search for a broader balance of businesses, in terms of both counter-cyclical and greater international content, can long-term planning help the company avoid its own past problems and mistakes, and those of other enterprises?

Only time will tell, but Sir Alex is hopeful: "Planning helps to direct attention at the ways you might go, and to set up some priorities or combinations of strategy," he says, presenting a stark contrast in character with what many of his predecessor's critics— and admirers—call Lord Ryder's more intuitive style of managing Reed's expansion in the 1960s and early 1970s: some use the phrase "seat-of-the-pants."

It is the divestment phase of Reed's planning which has so far received most outside attention, at both conferences and business schools. And it will be Reed's current and unusually thorough analysis of diversification options which will attract most in the future.

Yet the most significant aspect of its planning is arguably its everyday impact. It is significant not only to Reed itself, but also to other companies which are still finding ways of running their established businesses in a more disciplined way. Skeptics who argue that planning is an ivory-tower activity, of interest only to planners, chairmen and chief executives, should also have much to learn from Reed's experience.

Intrusion

Whereas planning for rationalisation and diversification can be a once-and-for-all effort, and in many companies is tailored to help decision-making only at board level, Reed's approach is intended to be broader and continuous. This means that it has had to be designed to involve and assist managers at various levels down the organisation, both at divisional level and below.

Thus when Jarratt says Reed's planning effort "has helped make us more surprise-free," he no longer applies the "us" just to his fellow-directors, as he would have done when the system was being introduced in 1977-78. "The divisions are increasingly understanding themselves," he says.

It would be surprising if it were otherwise, given the impetus of a strong and successful top management which not only places great emphasis on the need for self-reliance and what Jarratt calls "continuous renewal," but also carefully plots performance at the divisional level against its own very detailed idea of what each particular business should be able to achieve.

Sir Alex's contention that planning helps the divisions themselves is certainly reinforced by Malcolm Glenn's six-year experience in several Reed divisions, including his current tenure as the head of Decorative Products. But it also supports the view of a leading British business school academic that whereas Jarratt is reputed for his "decentralised" organisational style, his planning system has actually shifted considerable management control to the centre.

Like most managers down the Reed organisation, Glenn reacted negatively at first to the increased intrusion and paper work associated with the new planning system. But he now says that it has brought divisional management two essential advantages.

First, "Reed has become a lot clearer about what sort of performance it wants from the divisions," both in general and in terms of specific performance measures (he quotes the definition of cash flow as one example).

Second, the system "makes

about whether you can meet those requirements, and if not, why not?" This applies both to long-term strategy and to annual performance, he suggests. On the longer-term plane, Glenn argues that "it's quite useful to have something which forces you to stand outside your business, take a deep breath, and have another look."

As for the annual business plan, and the division's performance against it, says Reed has become "increasingly robust about making you justify the existence of your business," and remains so "even now that they've got some money in the bank."

In the debt- and crisis-ridden days of 1977-78, when the planning system was just being introduced, this self-justification was required from each of the 60 businesses, as part of a process in which their existing plans had been matched against a series of alternative strategies prepared at the centre.

This was a Herculean task for Reed's five-man planning team, even with the help of computers and a mass of information from outside sources. This included possible economic trends, and an analysis of the average (or "par") performance of an international cross-section of companies in every relevant industrial sector. (The operation of Reed's planning system will be examined in tomorrow's Management Page).

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whole system—the corporate entity would lose control."

Divisional managers in many other companies would echo Glenn's view of this dilemma:

"We want the flexibility; the centre needs the control." But few central managements can have had such a salutary recent experience as Reed's of losing grip over a subsidiary. As Glenn points out, it was the problems of a relatively small subsidiary, Reed Paper in Canada, which made a major contribution to its debt mountain.

While deviations from plan are obviously permitted—with the agreement of headquarters—the original plan is not actually revised. This is the change Glenn advocates, though he insists that there can be no question of allowing such changes without the usual "often pretty rough" debate between the division and the centre. "The day you easily get a plan variation is the day you destroy the

whole system," to quote John Chandler. Finally, Chandler's planners themselves were starting with a clean slate; none had worked at the centre of Reed before.

Many companies have tried to introduce radical new planning and control systems without the impetus of all these four factors—of those already featured in this series of articles, Ciba-Geigy and Shell are two examples—but few have achieved a lasting success without at least one of them.

As with Shell in particular, Reed seems to have succeeded—so far at least—in using its planning system as a catalyst for something far broader than just a more effective planning process—namely a frequent questioning of assumptions and performance. To quote Sir Alex Jarratt, it is bringing "not only a sharpening of the management system, but a different way of thinking."

C.L.

Lloyds Bank Group Results

First six months of 1980

Profit before tax of the Lloyds Bank Group in the first half of 1980 was £145m. When adjusted for inflation it was £63m.

This compares with the previous six months' figure of £152m, or £89m when adjusted for inflation.

The Group now operates in 46 countries around the world, employs 59,000 people and has total assets of £19,600 million.



Lloyds Bank Group

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June 1980

Lloyds Bank Limited

8 LOMBARD

The delusion of exchange rates

BY SAMUEL BRITTON

LET US suppose that the Chancellor of the Exchequer were to make a surprise announcement saying "I have instructed the Bank of England to intervene in the foreign exchange market to reduce the competitive disadvantage suffered by British exporters at present exchange rates" and add that this took precedence over the monetary guidelines.

I must emphasise that this is a thought experiment. It is the exact opposite of what Sir Geoffrey Howe has actually said. Moreover Sir Geoffrey would never have used the verb "instruct" in front of "Bank of England". But such an announcement would be received with such delight by so many industrialists and trade unionists that the argument is worth pursuing.

Doubtless the initial impact would be a fall in sterling—perhaps by much more than anyone bargained for. By creating the sterling to buy up foreign currency, the Bank could ensure that the depreciation was no flash in the pan, but went on and on. Even then it is highly likely that producers would find that their competitive improvement was purely temporary, and that not many years later they would find themselves at the same competitive disadvantage, but suffering at a lower nominal exchange rate and higher inflation rate.

The table brings out very clearly the difference between

NOMINAL AND REAL EXCHANGE RATES % Changes 1973 to 1979	
Effective spot rate	Effective real rate
Switzerland +67	+16
Germany +364	+4
Austria +18	-3
Japan +15	-3
U.S. -2	-5
France -10	-3
UK -27	+19
Italy -45	-7

the nominal—or effective spot—exchange rate—and the real rate. The latter is adjusted for the relative movement of prices in each country and its main competitors. The index used is domestic wholesale prices of non-food manufactures, averaged among countries on a trade weighted basis.

It can be seen that the two

kinds of rate are entirely different animals. The yen as measured in the foreign exchange market appreciated by 15 per cent between 1973 and 1979. But the real exchange rate showed a modest depreciation. Sterling on the other hand depreciated by 27 per cent in nominal terms taking the six year period together, but there was nevertheless a real appreciation of 19 per cent.

Switzerland stood high in both the nominal and the real appreciation stakes. The German mark experienced a hefty 36 per cent nominal appreciation, but only a modest 4 per cent real appreciation. No wonder German industrialists suffered so little, for all their loud-voiced complaints. Nor was there even all that much year to year variability in the real value of the mark. The "standard deviation" of the latter from its trend was only about 3 per cent. The biggest deviations—in the 8 per cent to 9 per cent range—were experienced by Switzerland and Japan.

The exact figures are sensitive to the weighting systems used. They may in particular understate the nominal depreciation of the U.S. dollar, because of the high weighting given to its Canadian counterpart. But alternative calculations would not upset the general conclusions.

The table is taken from a paper on exchange rate policy by Prof. P. Korteweg of Erasmus University, Rotterdam. Indeed the main interest lies not in the figures, but in the explanations provided. In extreme brevity they are that exchange rate changes are required both to offset international inflation differences and to allow for international shifts in sectoral productivity and trading patterns. It is the changes in the latter—which the impact of North Sea oil is the headline example—which account for the difference between real and nominal exchange rate changes.

It took a decade of stagnation to convince people that there was no enduring trade-off between inflation and unemployment. Must it take another decade to make us learn that there is no exchange rate policy which will "improve" international competitiveness in the face of real forces acting the other way?

TV/Radio
+ Indicates programmes in black and white

BBC 1
6.45-7.55 am Open University (UHF only). 9.55 Noah and Nelly. 10.15 Jackanory. 10.15 Tarzan, Lord of the Jungle. 10.25 Who Does You? 1.20 pm Headlines and Tails. 1.45 Midday News. 2.05 Your Songs of Praise. Choice. 2.40 "Oklahoma." Film musical. 4.55 455 Olympic Grandstand; Swimming, diving and gymnastics. 5.45 Evening News. 5.55 Olympic Grandstand. 7.15 Ask the Family. 7.40 Comedy Classic: The Good Life. 8.10 Panorama: Britain's nuclear armory. 9.00 Nine O'Clock News. 9.25 The Monday Film: "Billy Two Hats," starring Gregory Peck. 11.05 The Editors.

F.T. CROSSWORD PUZZLE No. 4,327

ACROSS
1 What steeplejacks and fashionable society enjoy (4, 4)
5 Inland work of biblical character (6)
9 Propeller that ventilates ship's company (8)
10 Church official giving gender to name initials (6)
11 Part of New York set aside for redevelopment (4, 4)
12 Upper-class for that may be employed (6)
14 Pudding for Dalmatian (7, 3)
15 Everybody there admiring silver is fashionable (3, 3)
22 Choral work from a book with a border (6)
33 Sweet and sour small quantity of liquid (4, 4)
24 First course for beginner (6)
25 Continental coach creating wit on literature (5, 3)
36 The French examination is out-of-date (6)
27 Opportunity to go to railway and court (5)

DOWN
1 Practical joker making hybrid ox hear (6)
2 Gaudy fish, I hush (6)
3 Place on top of table for insect (6)
4 Racing, for example, and stops half with wine (5, 5)
6 Superintendent left remaining to observe direction (8)
7 Insect I give form to make a toxic neutraliser (8)
8 Steer to edge and come together (8)
13 Coative dramatically to instruct and transport (10)
15 Dressing a boy in soil (5, 3)
16 Policemen measure beneath apartment (4-4)
17 Being barefooted, she loses badly (8)
18 Be in contact with notice and become a member (6)
20 Cook start of entree on metal grid (6)
21 Speckled crock in filthy place (6)

The solution of last Saturday's prize puzzle will be published with names of winners next Saturday.

Euro-law affects UK immigration rules

WHATEVER comfort there may be for the bureaucrat in the House of Lords' decision in *Zamir v. Secretary of State for the Home Department*, which imposes upon the intending immigrant an absolute duty to disclose to the immigration officer everything relevant to his immigrant status and history, the immigration authorities are not getting things all of their own way. Earlier this month, the European Court of Justice at Luxembourg in *Regina v. Pieck* has in effect struck down the Home Office's procedure for dealing with migrant workers from the EEC who enter through our ports.

Mr. Pieck is a Dutch national and a holder of a Dutch passport. He first entered this country in August, 1973, and subsequently left and re-entered. In April, 1976, his passport was renewed at the Dutch Embassy in London, on which occasion he gave his residence as Cardiff. He entered this country again in December, 1977, left in July, 1978, and entered one week later on July 29, 1978.

If anyone in the early 1970s

consoled a doubtful British public that our joining the Common Market would affect only our economic laws and could never have any legal effect upon our criminal laws—and many legal luminaries did just that—he must now eat his words. For the decision in Pieck has effectively ruled that a criminal offence under the Immigration Act 1971 cannot be applied to an EEC worker in this country, and to the extent that the offence might still be available it cannot in any event lead to a sentence of imprisonment even though the UK Parliament made the offence imprisonable.

Section 24 (1) (h) of the 1971 Act makes it an offence for any alien (since 1971 the alien is described as a non-national) to overstay his leave, and asked for advice. He was advised to send his passport to the Home Office, together with an application

able with a fine of not more than £200 and/or with imprisonment for not more than six months. In May last year, Mr. Pieck was charged under that section before the Stipendiary Magistrate at Pontypridd Magistrates' Court, and a "notice as officer everything relevant to his immigrant status and history, the immigration authorities are not getting things all of their own way. Earlier this month, the European Court of Justice at Luxembourg in *Regina v. Pieck* has in effect struck down the Home Office's procedure for dealing with migrant workers from the EEC who enter through our ports.

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for a further stay, but he did nothing. The next he heard about his case was when he was required by a police officer to produce his passport. He explained to the officer that he had been going to send it off but forgot. He was then charged with the offence of staying in this country beyond January 29, 1979.

Last July, he appeared in court and pleaded not guilty. His counsel, Mr. Alan Newman (who has had some experience of taking cases to Luxembourg) argued that the stamp in the

frontier of the disembarking country in the form of an endorsement on his passport or of a separate document. An endorsement on the passport at the moment of entry giving leave to enter was, it was claimed, not to be regarded as an entry visa. That contention was firmly rejected. The court held that "entry visa" covered

any formality for the purpose of granting leave to enter, whatever may be the place or time at which that leave was granted and in whatever form it was granted. The Home Office will now have to abandon its practice of granting an EEC worker a limited leave to enter,

because the court went on to say, any such limitation is incompatible with the EEC law conferring the freedom of movement to workers within the

frontier of the dismembered

country. The Home Office explained to the European Court that the object of giving an EEC worker a limited leave to enter was to avoid delay at the port of entry. It avoided the immigration officer having to examine each nationality of a member State as he arrived in order to ascertain whether the purpose of his coming to the United Kingdom was one giving him a right of entry under the Treaty of Rome. It meant that there was a period of six months in which an

alien could decide whether he wished to remain longer (as he was entitled to do) and, if appropriate, to apply for a residence permit. However sensible that system may be for a country like the United Kingdom that does not issue identity cards and has no registers of its population, nor requires aliens to register with the police other than in certain cases, it does not unhappy accord with EEC law.

This was characteristic of the Home Office's soundly cavalier approach to the case.

The Government first argued that the phrase "entry visa" meant exclusively a documentary clearance issued before the traveller leaves the country of embarkation and arrives at the

THE WEEK IN THE COURTS

BY JUSTINIAN

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THE ARTS

Glyndebourne

Die Zauberflöte

by ARTHUR JACOBS

Two happy returns, and one not quite so happy, mark the changed cast which is now to be seen in this highly intelligent and successful production by John Cox.

Benjamin Luxon, who appeared as Papageno when the production was new in 1978, shows himself again the almost perfect interpreter of the role. There is a ceaseless, spontaneous-seeming animation in this Papageno—occasionally whistling his five-note theme, instead of playing it on his pipes, or trying to relieve a ritual ordeal of silence by some impromptu bird-imitations. His vocal strength and subtlety are as admirable as ever, and, in combining comedy and pathos, the only thing he lacks which Gerald Evans had is a capacity to "milk" the audience's sympathy before the proposed

suicide—easier, of course, when the opera is performed in the audience's tongue, but not impossible even across a language barrier.

Bernard Haitink, the conductor in 1978, was no less welcome back. Once past an uncharacteristic smugness of melody in the opening bars of the overture, his performance had the resources to bring both the weight and the rhythmic spring which the score needs. The London Philharmonic Orchestra responded with a ravishing realisation of the opportunities which Mozart provides.

Isobel Buchanan's return to the role of Pamina left me less satisfied. This much-commended young soprano—she is only 26 this year—gave out some beautiful phrases, some less beautiful, and was inclined to push

her upper notes. In the initial recognition scene between her and Ryland Davies, it was Mr. Davies' utterance that thrilled, and her acting of the fragile role failed to touch its centre.

Ryland Davies' full-voiced, nobly portrayed Tamino, and Rita Shane's exceptional Queen of the Night (no mere possessor of freakish high notes but a commanding dramatic figure) continue to adorn the cast and Glyndebourne's care over minor roles is fully sustained in the excellencies of Hugo Hetherington's Priest. The production may be inevitably known (as Nicholas Kenyon suggested in his initial review) as "the David Hockney *Zauberflöte*," with its fantastic animals and its striking scenic perspectives, but I shall remember it for many more pleasures than those.

Covent Garden

The Song of the Earth

by CLEMENT CRISP

An important fact in performance of *The Song of the Earth* is that its interpreters are very exposed. There is no fancy costuming, no opportunity to beguile the audience and corral the text with "acting, or by making delicious capital out of personality. The dancers dance, and if they are honest the choreography speaks through their bodies. So seemingly bare is MacMillan's manner that any attempt by a dancer to fill it out to "interpret" the movement destroys the work. But this is on Friday night when *Song* returned to the repertory, the cast trust the ballet and submit themselves to it, then the result is very fine. With Monica Mason as the Woman, David Wall as the Man, and Anthony Dowell as the Messenger, with a high-powered supporting group led by Vergie Derman, Jennifer Penney and Wayne Eagling, we saw a grave account which caught all the expressive force of this most serious ballet.

Holland Festival

Soldiers' Mass

by CLEMENT CRISP

There was a time when the Nederlands Dans Theater was a regular visitor to Britain. Through good years, which were very good, and bad—at the time of the company's last appearances here, with a repertory riddled with feeble American experiments—NDT has held our affections. Since the last London season in 1973, the troupe has developed a markedly different identity, thanks to the choreographies of its director, Jiri Kylian. Czech born, a Royal Ballet School student, a dancer with the Stuttgart Ballet, Kylian has brought a new dynamism to NDT's dance manner. I recently saw his latest work, *Soldiers' Mass* (a setting of Martin's Field Mass), during the Holland Festival.

Kylian's style here, is certainly other of his ballets, has a high energy level, dance dedicated to the proposition that bodies are to be used to the full. There may seem little that is below a *mezzo-forte* in such pieces, and much that is *forsworne* in dynamics. *Soldiers' Mass* is written for 12 men, clad in black-green shirts and with trousers that end in vestigial garters, who are treated for the most part as a military squad.

By insisting upon groupings that evoke the disciplined formations of men in battle, and a consequent community of feeling, the occasional emergence of a single figure from the

ensemble sustain. Anthony Dowell effortlessly conveyed the inhuman quality of the Messenger not a matter of the half-mask hiding his features, but of dancing given a complete Inevitability. I thought Jennifer Penney better than ever in the scherzo "of Youth," enchanting in the sweetness of her dancing. And despite some rough edges, Mahler's symphony for voices received a purposeful performance under Ashley Lawrence.

Enigma Variations completed the programme. For all the Royal Ballet's authenticity of style, there now seems a tendency to wallow in the emotions that surround the figure of Elgar. The economy with which Monica Mason and Leslie Edwards present their characterisations is still admirable; for some other members of the cast the dictum "less is more" might suggest a control of means which would prevent the ballet becoming sentimentalised and quaint.

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Fragility in Zimbabwe

NO ONE ever thought the reconstruction process in Zimbabwe was going to be easy. The legacy of bitterness of the years of civil war was too deep, and the aspirations of the emancipated black population too high, for Mr. Robert Mugabe to be able to find any simple route to political stability and economic prosperity.

Nevertheless the success, against all the odds, of the British and Commonwealth-supervised cease-fire and election process did inspire an idealistic faith that those problems could be resolved. But that faint hope appears increasingly fragile.

Demonstration

The escalating bickering between the supporters of Mr. Mugabe and Mr. Nkomo in Government, and the growing confusion between rhetoric and reality in relations between Zimbabwe and South Africa, were perhaps predictable. But the decision by Lieutenant-General Peter Walls to quit at head of the country's joint military command is the most dramatic demonstration to date of the intractability of the problems Mr. Mugabe is facing.

The plan to integrate the armed forces of the three major warring factions in Zimbabwe—the white-officered Rhodesian security forces, the semi-regular Zippa guerrillas loyal to Mr. Nkomo, and the irregular Zanla guerrillas supporting Mr. Mugabe—has always been potentially explosive. General Walls' early retirement can only make it more difficult. His move presents General Sir Erwin Bramall, the British Chief of General Staff, with a serious problem on the eve of his visit this week to review the progress of the British-assisted integration.

There were two main purposes behind Mr. Mugabe's original controversial decision to appoint General Walls. One was to provide a supreme commander who was essentially neutral in the rivalry between the forces of Zanla and Zippa, and therefore to postpone the divisive decision on who should become the first black military commander. The second was to reassure the dejected White community of its safety. His departure suggests the possibility of failure on both counts. It is a sad illustration of the

depth of white bitterness that General Walls' appointment was widely regarded not as a gesture of conciliation, but as a sell-out by the former Rhodesian commander. He does not seem to have recovered from that reaction.

As for his achievement as a neutral arbiter, progress on integration has been pitifully slow; one combined battalion was formed at the end of June and a second is undergoing train under British supervision outside Bulawayo. Under a six-week rotational training programme a new integrated battalion is theoretically to be formed every fortnight, but to judge by the progress to date, that aim seems excessively optimistic.

The major blame for the slow progress must be laid at the door of the political parties.

Mr. Mugabe's failure to prevent his senior Ministers from attacking Mr. Nkomo, and the latter's obvious disaffection with the whole fragile alliance, have given their tribally-divided guerrilla supporters no incentive to bury their own differences.

Uncertainty

The longer the uncertainty continues, and more than 30,000 guerrillas languish in separate camps, the greater the danger of a return to bloodshed. Mr. Mugabe has an unenviable task seeking a successor to General Walls. He can pick his own controversial Zanla commander, Rex Nhongo, and alienate Zippa and the white community. He can pick a Zippa man, Dumiso Dabengwa (the head of security, who was the outstanding guerrilla commander during the cease-fire process) and undermine his own position. Or he can look for another neutral figure like General Walls, possibly from outside the country — perhaps from Britain.

Whatever he decides Britain should be cautious in its approach to the whole business. Both for the future of southern Africa, and the protection of British interests and investment under the man shown to be overwhelmingly the popular choice, is the most desirable objective. That may well require further British assistance.

It is a sad illustration of the

No verdict on comprehensives

THE REPORT by the National Children's Bureau on secondary education has been called "vindication" of comprehensive schools by several of their committed supporters, including Mr. Neil Kinnock, the Opposition Spokesman on education. The epithet, however, testifies more to the convictions of those who use it, than to their ability or willingness to view objectively the evidence on which the report was based.

It is true that the bureau's research, as part of its long-term study of children born in a particular week of 1958, has refuted the common belief that comprehensive schools retard the educational progress of pupils with unusually high academic ability. The bureau's tests showed that when aged 16, such children achieved similar standards of literacy and numeracy whether they had attended comprehensives, or the grammar schools which with the far less academic secondary modern schools constitute the "selective" sector of State education.

Disappointment

This indication is nevertheless outweighed by two other findings. The tests failed to justify to any marked extent the favourable belief that the comprehensive structure enhances the progress of children with low academic ability. Such children did similarly badly in both sectors, although those at comprehensives tended to be ahead of those at secondary modern schools in mathematics. But the second disappointment is the more significant. It is that children with a middling talent for scholarship—who constitute the majority—did less well in comprehensives than in grammar schools.

The mixture of some favourable with a greater amount of adverse evidence characterises the bureau's research into other attributes of the 6,000 16-year-olds covered by the survey. Those in comprehensive schools which had established effective sixth-forms showed more keenness than their counterparts in the selective sector as a whole to stay in full-time education beyond the compulsory school age. Even though this tendency is viewed by the educational profession as an unqualified good, however, it is not beyond question. Staying on may not always be the best course for children whose middling

on the evidence, it could equally be argued that whether secondary schooling is comprehensive or selective is less important to the child than factors which are not dependent on the structure of education. For example, as well as discovering that mediocre scholars did less well in comprehensives, the report found that these schools had a higher rate of truancy. Both could be attributed to a weakness of discipline, which is certainly not necessarily a function of type of school. It is a function of the determination of teachers to ensure that a child does well, and of the support the teachers are given by parents and by the values of society at large.

Easy as pie

Iran's trigger-happy law enforcement authorities, having cut a swathe through that unhappy nation's ranks of drug traffickers, counter-revolutionaries, pimps and other malcontents, have now directed their awesome powers on the innocuous pastime of the pigeon fancier.

Apparently unaware that

Hopeful signs on Britain's inflation front

BY PETER RIDDELL, Economics Correspondent

INFLATION is largely a matter of attitudes and expectations. Recently these have changed dramatically. A Gallup Poll last Thursday showed that the proportion of people rating inflation as the country's most urgent problem had dropped since May from 41 to 27 per cent—in part because of a marked increase in concern about unemployment.

The evidence to explain this change of view can be seen all around. In one North London High Street, for example, almost every shop front was last week offering special offers and price reductions. The only exceptions were banks, building societies and an undertaker.

Industry is having to limit its price increases. A recent Confederation of British Industry survey showed that fewer companies were planning to raise their prices during the coming four months than at any time for 7½ years. The reports of price cuts or of very small price rises range from textiles and chemicals to household goods. For example, the price of propylene—used to make plastics—had fallen by 10 to 17 per cent in the past three months, while prices charged for a range of metal manufacturing products were on average lower in June than in February.

This slowdown is now beginning to show through in the official statistics. After rising by nearly 6 per cent in the first three months of this year, prices charged for manufactured products increased by less than 3½ per cent between March and June. Similarly, the Retail Prices Index has increased by just under 1 per cent in each of the last two months, much less than the average monthly rise of more than 4½ per cent earlier this year. The current High Street price cutting has been reflected in a marginal fall in the price of durable household goods between May and June, and petrol prices have dropped since then. The overall slowdown would have been more marked but for a continuing sharp rise in prices charged by nationalised industries, such as gas and electricity.

The peak of the 12-month rate of increase in retail prices—the usual headline yardstick of inflation—was slightly less than been feared. The mid-May rate was 21.9 per cent, compared with earlier projections of a

possible peak of more than 23 per cent. The latest figures showed that deceleration has begun with a 12-month rate of 21 per cent in mid-June. This should fall by at least a further 3 percentage points when the next index is announced. This is because the price rises caused by the increase in Value Added Tax last summer will drop out of the comparison. And the 12-month rate should be down to the forecast level of 16½ per cent by the end of this year, and possibly even less if the current price cutting continues.

Perhaps most significant of all are the signs of possible changes in the labour market. The annual rate of growth of average earnings has stopped accelerating and is now about 21 per cent after rising from less than 15 per cent over the last year. Admittedly this is so far mainly the result of less overtime and more short-time working. But Sir Geoffrey Howe, the Chancellor of the Exchequer, felt able to claim last Tuesday that there was "increasing evidence of a new mood of realism on pay spreading through British industry."

The facts to date are far from conclusive. The CBI's Midlands region has reported that pay rises had recently averaged about 8 per cent. But this may not be typical of the country as a whole. The Midlands includes a heavy concentration of small and medium-sized manufacturing companies which are particularly exposed to the special problems of the motor sector and to the sharp downturn in

Exceptions were banks, building societies and an undertaker

engineering. There is less evidence so far of a significant slowdown in pay rises in either the public sector or private sector services. Nevertheless the trend may be about to change.

These factors have together produced a marked change in attitudes since the spring

among politicians and economists. If there is not exactly euphoria in Whitehall—as there hardly could be in view of the unemployment outlook—there is at least an air of optimism, notably among

INTERNATIONAL COMPARISONS OF AVERAGE ANNUAL RISES IN CONSUMER PRICES

	1977	1978	1979	12 months to May, 1980
U.S.	6.5	7.7	11.3	14.4
Japan	8.1	3.8	3.6	8.2
Germany	3.7	2.7	4.1	6.0
France	9.4	9.1	10.8	13.7
UK	15.9	8.3	13.4	21.9
Italy	17.0	12.1	14.8	20.8
Canada	8.0	9.0	9.1	9.4
Total (OECD)	8.7	7.7	9.9	13.8

Source: Organisation for Economic Co-operation and Development.

especially in wages), partly on the Government's own mistakes (notably the increase in VAT), and partly on the external shock of the further rise in oil prices. Many economists would argue that the Government wasted its first six months and "did not get its act together" until last November. Monetary policy was then at last tightened when Maximum Lending Rate was raised to 17 per cent.

The shift in inflationary

expectations can be directly related to the dramatic start of the recession in April and May.

Both domestic and foreign demand for a wide range of goods has fallen sharply. This has forced industry to limit price rises in order to remain competitive. Indeed there have been price cuts in cases where manufacturers and retailers have attempted to reduce excessive stocks of goods which are expensive to finance at current interest rates. This adjustment could last for about a year though in retailing the rundown would be shorter. Thus the next few months could be one of the best times ever to buy durable household goods and cars—while stocks last. When industry and retailing are going through a difficult period it is good news for the consumer.

The deepening recession has also been the main influence on the apparent change in the climate of wage bargaining. This can be described as "old-fashioned deflation." But whatever the label, there is little doubt from the comments of employers and shop stewards alike that continuing large-scale redundancies and rising unemployment are having an impact on pay claims. This applies particularly in regions such as the Midlands which are used to relatively full employment.

All this is some way from the Government's aspirations in its first Budget in June, 1979.

It was then hoped that a reliance on targets limiting the growth of the money supply

would influence behaviour and reduce the underlying rate of inflation. The size and duration of these losses will depend on how quickly behaviour, especially that of pay negotiations, adjusts to the monetary guidelines.

The problem was summed up by the Bank of England in its June quarterly bulletin. "Any restraint of wages in face of price increases has clearly been less (in the UK) than in many other countries—an indication that inflationary rigidities have got more deeply entrenched in this country than elsewhere, and that the policy required to break inflationary expectations may have to be more severe."

In short, since some people have not adjusted their expectations and pay claims in line with monetary targets the medicine will have to be more severe as they price themselves out of their jobs.

The monetary squeeze may

only have started to bite last winter but there is some puzzle about why the strong pound—a feature since 1977-78—did not have more impact last year.

After all, the average value of sterling against other currencies rose by 9½ per cent during 1979 alone. The theory is that this

is

import prices in recent months. The average price of imported manufactured goods dropped by 3½ per cent between the first and second quarters of this year. This in turn has been having an increasing effect on prices charged by domestic suppliers.

Even before the latest squeeze

the threat from imports was probably the main reason why the retail prices of durable household goods and clothing and footwear have increased much more slowly than prices generally. Overall, the strength of the pound in the past two years has probably meant that the 12-month inflation rate is about 3 to 5 percentage points less than it would otherwise be, according to a rough-and-ready estimate given to a Commons committee last week by Mr. Frank Cassell, a senior Treasury economist.

The combination of a strong

pound, the monetary squeeze

and the domestic recession are now clearly acting as a check on price rises. In addition, the rate of growth of good prices has been relatively modest—just over 12 per cent annually—while there has been a marked

slowdown in the rate of increase of world commodity prices. Moreover, some of the price increases over the past year can be regarded as exceptional apart from the rise in VAT, some, though not all, of the 28.8 per cent rise in nationalised industry prices in the past year represents a catching-up after the price restraint before the last election. Energy prices, however, are still likely to rise fairly fast over the next few years.

Senior Ministers and pundits

are probably right to predict a substantial fall in the inflation rate during the next year or so, especially if the mortgage rates come down next year. But there are still several major uncertainties. In the short term, market forces may curb the level of pay settlements in large parts of the private sector—but the same will not be true in most of the public sector. There, the Government's desire to limit pay rises will be tested.

In the longer term, the main

question is how far some of the pressures reducing the inflation rate may be temporary and cyclical. This does not mean that the economy cannot recover without pushing up the inflation rate; indeed, without a reduction in the rate of inflation, a sustainable revival of output is unlikely. But it is possible that world commodity prices and sterling may not be favourable factors after mid-1981, while industrialists will be looking for every opportunity to boost their profit margins if demand expands.

Monetarists believe that as long as the Government sticks to its medium-term strategy it should be possible to cut the inflation rate to single figures and keep it there. Other economists and politicians are sceptical about whether a rate of under 10 per cent will be achievable without a further major change in inflationary psychology and without an unacceptable loss of output and jobs. For all the current confidence in Whitehall the worry remains that the current squeeze may only succeed in reducing the inflation rate to where it was, temporarily, in 1978-79.

MEN AND MATTERS



Play it again

"As with all projects here," sighs Treasury assistant secretary Andrew Edwards, "it all depends on the finance." In this instance, however, his concern is associated not with his daily round in European monetary affairs, but with a plan to stage a concert.

Conductor and dogshow by the Treasury Singers since 1983, Edwards is currently fretting about the chances of mounting a Monteverdi extravaganza and specifically of unearthing in Whitehall or anywhere else the specialist musicians needed to give his venture the essential note of authenticity. "To sound really exciting we shall need sackhuts and cornetto. But there is hardly such a thing as an amateur sackbut player," he complains.

The report is therefore not a vindication of anything. The best term for it is probably "inconclusive" because the questions it answers are far outnumbered by those it begs. This is so particularly since the survey was made in 1974 when fewer than half of the country's secondary school pupils were in comprehensives, and much has surely changed in the interval.

The most favourable finding—that the most academically able did equally well in comprehensives—was directly contradicted by the inquiry made by the State Inspectorate in 1975. But even the Inspectorate's later finding could no longer be safely considered valid today, when the proportion of secondary pupils in comprehensives has risen to five-sixths.

Discipline

On the evidence, it could equally be argued that whether secondary schooling is comprehensive or selective is less important to the child than factors which are not dependent on the structure of education.

For example, as well as discovering that mediocre scholars did less well in comprehensives, the report found that these schools had a higher rate of truancy. Both could be attributed to a weakness of discipline, which is certainly not necessarily a function of type of school. It is a function of the determination of teachers to ensure that a child does well, and of the support the teachers are given by parents and by the values of society at large.

Apparently unaware that

before me, is the thrilling sport of bursting the band grenade.

Young ladies must lob the said 500-grenade bomb 25 metres to gain a gold, while aspiring males must cover 40 metres with the 700-grenade model.

Further down the list of body-building exercises comes shooting a small-bore rifle with an option for the less-refined of popping off with "a heavy weapon."

But the official GTO stamp of approval for your average running, jumping, bomb-chucking, boozing—blasting Soviet citizen remains tantalisingly out of reach until he or she has withheld the ultimate test—wearing a gas mask for a full hour without gasping for fresh air.

So sprawling is the ministry

and so diverse are the pre-occupations of Sally Oppenheim, Cecil Parkinson, Norman Tebbit and Reginald Eyer, that

FINANCIAL TIMES SURVEY

Monday July 21 1980

JAPAN THE ENERGY CHALLENGE

As one of the biggest consumers of imported energy among the world's leading industrial nations, Japan has been hit correspondingly hard by the second oil crisis. The country's success in coping with the first crisis is a hopeful sign, but its leaders are well aware that the task this time is even harder.

Main obstacle to growth

By Charles Smith
For East Editor

ENERGY SHORTAGES represent the most serious potential obstacle in Japan's hopes of maintaining rapid growth during the coming decade. Paradoxically, they could also provide the most powerful stimulus Japan has yet received to overtake the West in the development of new technologies and to intervene directly in international affairs outside its own region of North-East Asia. Whether the overall impact will be positive or negative remains to be seen, but it appears certain that Japan will be changed by the coming energy "squeeze" almost as much as it was changed by the experience of reconstruction after World War II.

The reason why Japan cannot escape being profoundly affected by developments in the world energy situation over the next decade is that it is over-

whelmingly dependent on imported energy. Japan ranks second to the U.S. in the league table of oil-importing nations. But imported oil contributes far more to its total energy consumption than is the case with the U.S. or any other major industrial country.

In 1978 no less than 90 per cent of Japan's primary energy supply was imported, with the bulk of the total consisting of Middle East oil. The energy dependence of Japan appears greater still when one notes that 55 per cent of the total came from the Gulf area (including Saudi Arabia and Iran).

Japan's energy vulnerability led to something like panic when the first oil crisis struck in 1973. In the years that followed the economy made an unexpectedly strong recovery from the 1973 quadrupling of oil prices and, by 1978, few Japanese economists any longer believed that energy shortages represented the main potential constraint on GNP growth. This complacency, however, gave way to renewed concern in the spring of 1979 when the Iranian revolution, followed by production cutbacks in Saudi Arabia, set off another round of price increases and supply shortages.

Japan was eventually able to import its full oil requirements for 1979 but at a cost which was roughly three times that of the year before (in terms of yen). It was also obliged, for the first time since 1973, to take a long, hard look at the potential effect of oil and other energy shortages on its long

term economic growth prospects.

The result of this reassessment of future prospects was the announcement in the Government long-term economic development plan published in August, 1979 that Japan could expect to achieve economic growth of slightly more than 5.5 per cent in the first half of the 1980s, and 5.0 per cent in the latter half, if it increased its oil imports by 17 per cent up to between 1979 and 1985 and simultaneously made progress with the conservation of energy consumption by industry and the development of alternative energy sources.

Growth rate

The conclusion sounded reassuring enough given that Japan's growth rate during the six years since the 1973 oil crisis has seldom risen much above the 6 per cent level and sometimes well below 5 per cent. The only trouble is that few energy specialists, either inside or outside Japan, appear to believe that the premises on which the Government plan is based are reliable.

Japan's 1985 oil import target of 6.3m barrels per day, although formally sanctioned at the Tokyo summit of advanced industrial nations (when all the participants set themselves oil import targets for the mid-80s) is now widely regarded as being over-optimistic. "Alternative energy" estimates (for the end of the 1980s) also seem to reflect a good deal of wishful

thinking by government officials and are being scaled drastically by private forecasters.

Finally, there are doubts about Japan's ability to get more GNP growth than it is already doing out of a given quantity of energy, given ironically that it is already performing impressively in this respect. For the past few years the Japanese GNP has averaged a 0.6 per cent increase in energy consumption for every 1 per cent growth in GNP. This is a better figure than has been achieved by any other major industrial nation.

The conclusion which emerges from these rather depressing facts would seem to be that Japan must either face a considerable cut in growth rates over the 1980s (perhaps to 4 per cent per year or less), or must take urgent action to improve its energy situation by developing alternative energies at a faster rate. In practice it may have to do both these things.

Japan's growth targets probably will be scaled down, though at the cost of painful adjustments in various parts of the economy (including employment). At the same time much greater efforts will be required, and will probably be made, to convince the Japanese public that alternative energy sources such as coal and nuclear power are necessary and should be tolerated despite some obvious snags and disadvantages.

Adjusting the balance between the supply of alternative energies and the rate of domestic economic growth will

not be the only task confronting Japan in the 1980s. There are also external challenges to be faced as a result of the energy crisis. These will include finding the means to pay for costly oil imports (which will remain the main source of energy no matter how fast new sources of energy can be developed) and ensuring, or attempting to ensure, against political disruptions to the supply of oil.

Japan's oil bill in its 1980 fiscal year (ending March 31, 1981) is expected to amount to nearly \$60bn, or roughly half of its total imports. This will be covered by maximising exports of manufactured goods (to the developing world and to other developed countries) and by running a substantial deficit on the current account of the balance of payments which will in turn have to be offset by official and unofficial borrowing of various kinds.

The current account gap could diminish in 1981 and 1982 if oil prices remain stable or rise only modestly. But almost all Japanese analysts expect further steep price increases by the middle of the 1980s and a corresponding renewal of pressures on Japan's overseas payments.

Opinion

The nation will seek to balance these by obtaining its share of recycled OPEC petrodollars (in other words the excess dollars which oil-exporting countries will earn by jacking up their prices to oil importers like

Japan). Recycling alone, however, will not be enough in the opinion of most Japanese observers. It will also be necessary to keep exports expanding rapidly—and to ensure that the products exported are goods which earn a maximum amount of foreign currency with a minimum input of imported energy.

Japan's need to pay its way in a world of scarce and costly oil constitutes the main reason why the country will be placing more emphasis than ever during the next five to ten years on upgrading its industries and obtaining a global "technological supremacy" at least in some chosen areas. By producing goods which are not yet being manufactured in the West (such as video tape recorders) the Japanese hope to avoid trade frictions with the U.S. and Europe and to become accepted as useful, instead of disruptive, members of the world trading community. What they do not seem to envisage is a world in which Japanese industry and technology would be only on a par with western levels, in the sense that it turned out more or less the same products with only minor differences of style or specialisation.

Japan's other main preoccupation in the era of energy shortages will be to find ways of creating a political situation favourable to the smooth flow of energy supplies. Japan is nowhere near attaining the Great Power status which would permit it to intervene by force or threat of force in oil-

producing areas such as the Middle East. But it will try hard to use its economic strength (ie, the ability to offer technology and industrial hardware) to make friends and influence people in the Arab world. It may also, increasingly, be inclined to try its hand at Middle Eastern diplomacy.

Influence

Japan made a first tentative move towards adjusting its stance on the Palestine issue during the 1973 oil crisis and in so doing broke with the long-established principle of automatically endorsing the American viewpoint on all major international issues. To future this the Japanese may go beyond this and attempt to take a lead in framing Western policy towards the Middle East, possibly even seeking to influence the American position.

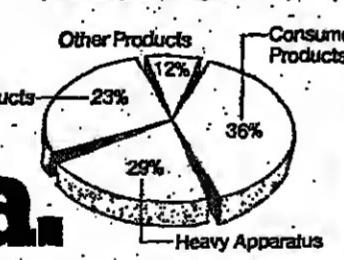
It scarcely needs to be stressed that Japan will be playing for high stakes, both economically and politically, as it confronts the seemingly inevitable energy squeeze of the 1980s. If the gamble pays off and the crisis is surmounted the Japanese economy could look stronger at the end of the decade than it does today and Japan could have emerged as a much more self-confident and active member of the international community. Failure to adjust to the circumstances of scarce and costly oil might, on the other hand, mean a low growth economy with a chronic payments problems and perhaps even some internal political instability.

Japan is too important in the world today for its allies and trading partners not to wish it success in its difficult task of adjustment. But those same friends and allies may have to resign themselves to the fact that a Japan which has successfully surmounted the energy challenge will be a still more serious competitor than one which is only starting to tackle the problem.

CONTENTS

The Economy	II
The Yen	II
Balance of Payments	IV
Foreign Policy	IV
Oil	V
Energy Consumption	V
Coal	VI
Nuclear Power	VI
New Energy Sources	VII
Industrial Structure	VIII
Steel	VIII
Agriculture	IX
Petrochemicals	X
The Motor Industry	X
Trading Companies	XI
Australia	XII
Mexico	XIII
Saudi Arabia	XIII
China	XIV
Siberia	XIV
Leisure	XIV
Personalities	XV-XVIII

Breakdown of Business Results by Product Group
(For fiscal year ending March 31, 1980)



Toshiba. The electronic charge behind tomorrow's technology.

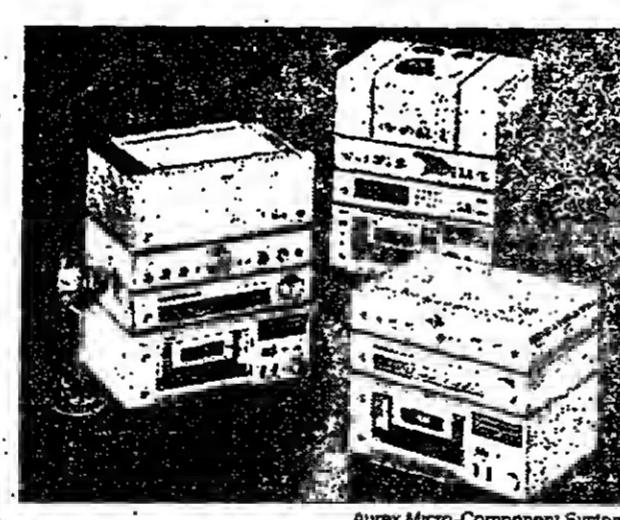
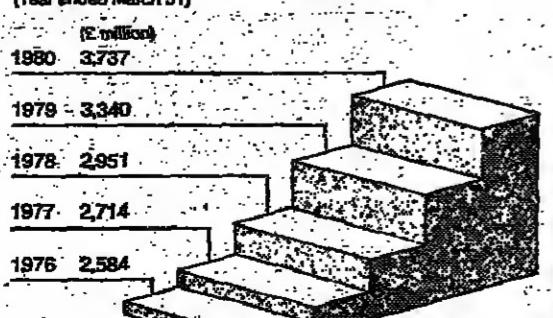
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5-Year Growth of Consolidated Net Sales (Year ended March 31)



Aurex Micro-Component Systems

700,000 kW steam turbine, assembled for shop test

700,

Management skills will be put to even greater test

THE ECONOMY

RICHARD HANSON

THE JAPANESE economy deserves the "best effort" award for achieving comparatively high rates of growth with a niggardly increase in oil consumption since the 1973 oil crisis. Unfortunately, it appears unlikely that even highly efficient industrial Japan can improve much more on the amount of real economic growth it squeezes out of the volume of energy it consumes. There is also a serious doubt as to how much energy will, in fact, be available by the end of this decade to support further growth.

These are the new economic facts of life Japan faces in the 1980s. In essence they mean that despite Herculean efforts to restructure and fine-tune the economy after the first oil crisis, the task of making it "energy crisis proof" is still decades from completion. This poses the immediate and crucial question of just how much growth the country can afford in the meantime.

At is the case with all questions posed by the energy crises, the answer depends on whether you are talking to an optimist or a pessimist. Roughly, the two groups break down between those who have a definite interest in seeing to it that all is well with the economy (the Government, primarily) and those whose job it is to point out what is going wrong (the private sector, although not all private forecasts are negative). The optimists say that a healthy rate of growth is possible (5-6 per cent) over the next 10 years, while the lower estimates are that Japan will be lucky to be able to afford over 4 per cent.

Those who support the higher rates say that anything less could lead to serious social problems, such as unemployment. On the other hand, advocates of a lowering of the sights say this will help achieve stability and keep to a minimum inflationary strains on world oil supplies. They also argue that supply constraints will automatically

JAPAN'S BALANCE OF PAYMENTS (\$m)							
	Exports	Imports	Trade balance	Services	Transfers	Current account	Long-term capital
1975	56,004	50,161	5,843	(5,364)	(345)	134	(260)
1976	69,394	58,246	11,148	(6,096)	(370)	4,683	(1,606)
1977	83,363	63,028	20,335	(5,922)	(417)	13,996	(2,441)
1978	96,978	76,447	20,531	(7,772)	(907)	11,852	(16,229)
1979	105,083	107,539	(2,456)	(10,205)	(1,270)	(13,931)	(8,186)

Notes: 1 Minus figures are in parentheses; 2 The years are Japanese fiscal years running from April 1 to March 31 e.g. 1979 = April 1, 1979, to March 31, 1980.

that the economy back — so that, in the end, there may not be much choice.

Committed

In what now seems like the distant past (i.e. before people worried about oil), Japan was committed to flat-out growth to "catch up" with the economic standards of the industrial West. The most important problem faced by Japanese economic managers in the 1960s in achieving double figure growth rates was how to do it despite the severe constraints presented by the country's precarious international payment's balance. Oil was cheap and readily available.

If the current account fell into deficit it meant that Japan was consuming more than it could afford to buy from the outside world; the economy, in other words, was over-heated and needed to be slowed down.

The classic deflationary tools were then applied; these consisted of raising interest rates and directly limiting the amount of funds banks could lend. From the mid-1960s onwards this formula worked almost too well, creating a robust economy that tended to be chronically in surplus. By 1970 the surpluses began to annoy Japan's trading partners, forcing Japan to start liberalising its rigid laws on capital flows and to accept a sharp revaluation of the yen. When the 1973 oil crisis struck, the authorities applied the same old brakes and for good measure clamped exchange controls back on the economy.

The Government has been accused of over-reacting initially to the 1973 quadrupling of prices (the discount rate went up a full two points to 9 per cent in one step in December, 1973) and causing a recession deeper and longer than it need have been.

GNP growth plunged from 10 per cent in the 1973 calendar year to minus 0.5 per cent the following, and the economy took two full years to recover its vigour. Inflation went from 16 per cent before the oil crisis (fuelled by a rash of speculative land and commodity price increases) to a peak of 22 per cent in 1975-1977. The U.S. became less efficient during the same years going from a ratio of 1.18 to 1.23. West Germany reduced its ratio to 0.86 from 1.27 before the oil crisis.

The authorities have since then become much more adept at handling the shock of an oil crisis, as verified by the reactions so far to the second crisis one which was sparked late in 1978 by revolution in Iran. The most practical lesson learned from the 1973 shock was not to panic. The Government would not like to see a repeat of the fear which spread to consumers and businesses in 1974. The years between the first and second crises have been well utilised by Japanese industry to become more energy efficient.

Industry in Japan consumes the lion's share of energy (unlike the U.S. where private consumption, for cars in particular, uses up large amounts of oil), and it does not need very much encouragement to become more efficient in using it. High rates of energy usage simply

accuses of profit and make manufactured products much less competitive.

The most spectacular savings have been made by some of the largest users. Steel, cement, aluminium and other big users have cut back successfully mostly through "positive" investment in new, more energy efficient plant and equipment.

The net result is that Japan went from requiring a 1.34 per cent increase in oil supplies for every 1 per cent of real GNP growth from 1970 to 1973 to an "elasticity" ratio of only 0.55 per 1 per cent GNP growth from 1975-1977. The U.S. became less efficient during the same years going from a ratio of 1.18 to 1.23. West Germany reduced its ratio to 0.86 from 1.27 before the oil crisis.

If Japan is to continue exporting successfully it will have to shift its industrial structure even further away from products that require large amounts of energy to produce (just as the economy had to become less labour intensive when wages began to rise). This will mean an increased emphasis on new industries, sophisticated machinery, and even greater efficiency in the old industries.

However, most economists believe that further savings by industry will not translate automatically into even better oil energy "elasticity" ratios. For the 1980s the oil consumption increase rate per 1 per cent of real GNP growth is expected to hover at 0.6-0.7, which indicates

a slight deterioration from the peak.

This is in part traceable to the trend for inefficient private consumption to eat up greater amounts of energy (more cars, heaters, air conditioners, refrigerators, etc.). The non-industry sector eventually could account for about half of energy demand compared with 40 per cent today.

Crucially

The rate of economic growth therefore depends crucially on how much oil and other forms of energy will be available over the next decade, here Japan's target figures and "realistic" estimates begin to show wide gaps.

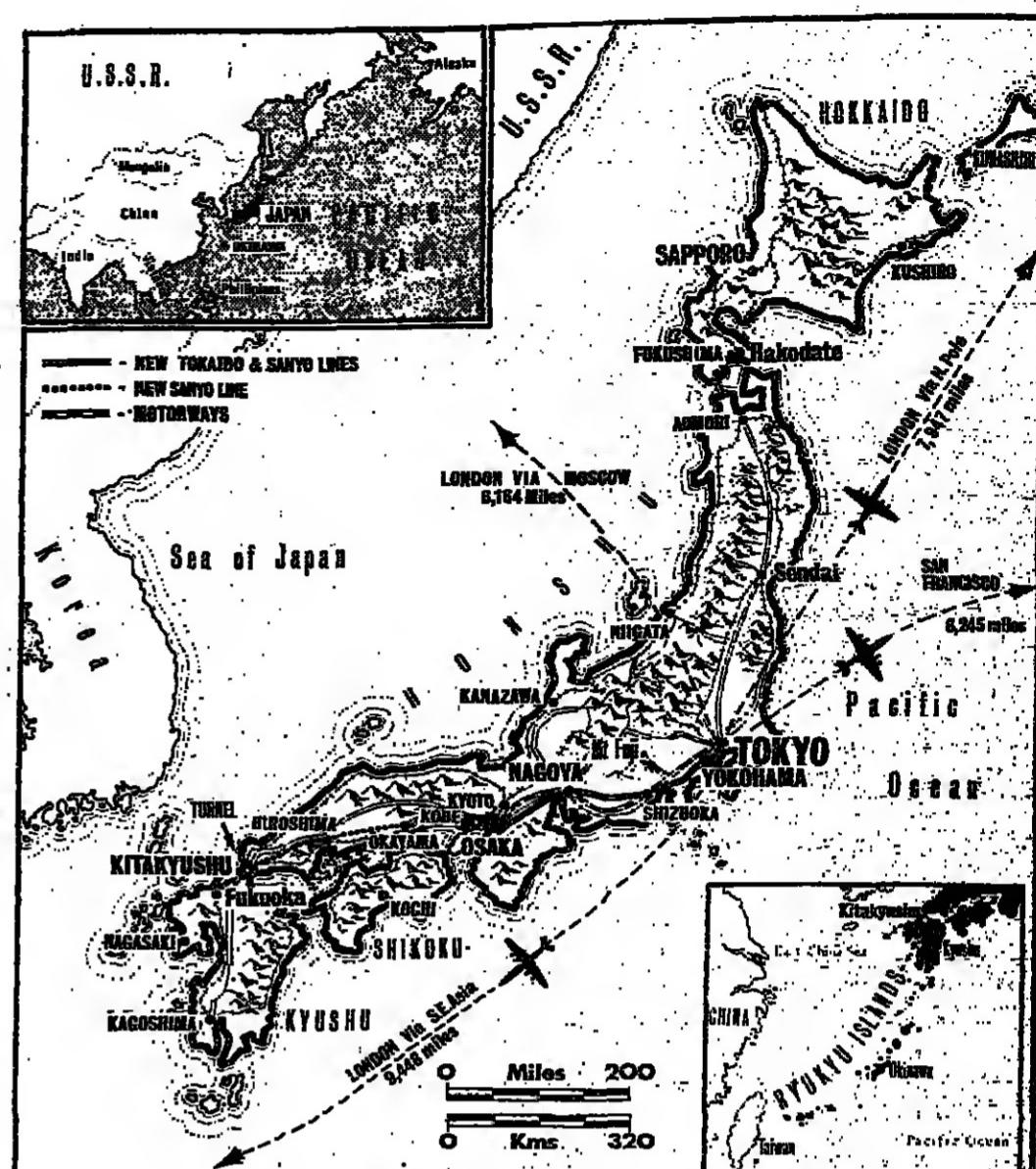
The Economic Planning Agency (EPA) a year ago set as long-range growth targets of 5.7 per cent per annum for the first five years and 5 per cent for the latter half of the 1980s. This assumed the following major factors: 1. That Japan will become about 15 per cent more efficient in conserving energy by 1990? 2. That oil imports will rise 17 per cent from last year's 5.4m B/D to 6.3m B/D; and 3. That progress will be made on bringing alternative energy sources like nuclear power, steam coal and LNG into substantially greater use.

The latter two factors have become extremely problematical, particularly expectations on nuclear power. Some bold that it will be difficult for Japan even to maintain its present level of oil imports, but a more reasonable view is that it will be only able to increase imports by about 10 per cent (rather than the targeted 17 per cent).

The private Institute of Energy Economics sees the country falling 12-13 per cent below the 1990 energy supply target, and predicts that growth rates closer to 4 per cent are all that can be expected in the GNP.

What can be said about the Japanese economy from now on with some certainty is that it is finally completing the transition to low growth from the high-growth '60s. The successful recovery from the first oil crisis is still being reflected in the present buoyancy of the economy.

Growth last fiscal year (to



March) topped the 6 per cent level in real terms, and is not expected to slow until later this year. The Government estimates something less than 5 per cent for the full fiscal year, on the basis of strong exports and spending by corporations for new plant and equipment.

A price has had to be paid for recovery, however. The national government's finances will be in the red, and new taxes will be needed before fiscal stability can be restored. In the interest of keeping down inflation (and keeping industry competitive), Japanese labour

BASIC STATISTICS	
Area	277,553 sq km
Population	115.9m
GDP (1979)	¥221,723bn
Per capita	¥1,913m
TRADE (1979)	
Imports	\$99.2bn
Exports	\$101.3bn
Imports from UK	£60.6bn
Exports to UK	£1.49bn
Currency: Yen	¥518.5= £1

Currency drawn willy-nilly into greater world role

THE YEN

RICHARD HANSON

ONE OF the "spin-offs" of the second oil crisis is that Japanese currency has been accumulating in the hands of foreigners at a faster pace over the past few months than at any time in the past. This de facto internationalisation of the yen is the result of measures the Government took to defend Japan's exchange rate from further deterioration in the wake of huge oil-induced international payments deficits.

The first oil crisis had led to the abrupt shelving of plans to allow greater international use of the yen. These plans were the brainchild of a small group of Finance Ministry "liberals" some of whom are no doubt drawing an ironic satisfaction from the fact that their ideas are at long last being put into practice.

"Orthodox" thinking in the Finance Ministry and the Bank of Japan has until now tended to stress the dangers rather than the advantages of too great an international use of the yen. Japan began its post-war economic recovery with a tightly regulated financial system featuring, among other things, officially regulated interest rates. The free flow of funds in and out of the country would have made it hard to sustain such a system and Japan accordingly adopted a foreign exchange control law modelled closely on that of the UK.

Prohibited

The law was based on the principle that all foreign exchange transactions were prohibited unless specifically authorised by the Finance Ministry and the Bank of Japan. In practice this meant that the scope for non-residents to acquire yen assets, or to borrow yen was almost nonexistent from the early 1950s until near the end of the 1960s. A parallel consequence of the system was that Japan's external trade was conducted, and financed, in foreign currencies with the bulk of short-term import finance being arranged through the New York head offices of major American banks.

The "watertight" foreign exchange control system first

began to spring leaks in the last few years of the decade of the sixties when foreign investors demanded—and bad to be given—increasing freedom to acquire yen securities. From 1970 until the onset of the first oil crisis in 1973 Japan's rapidly strengthening foreign exchange position prompted further tinkering with the system.

International organisations and foreign governments were granted permission to issue yen-dominated bonds in the Tokyo capital market from 1970 onwards (the so-called samurai bonds). At the same time there were discussions on instituting a "yen shift" which would have involved transferring the bulk of short-term import financing from dollars to yen. (This experiment was abandoned largely because the interest rate gap between Japan and the U.S. would have made the transfer prohibitively expensive.)

The 1973 oil crisis, with its overnight effect on Japan's international payments position, derailed these plans in a hurry. Yen lending to foreigners was halted abruptly (although foreigners continued to be encouraged to buy Japanese stocks as a means of "defending" the yen). The samurai bond market remained in limbo until its cautious reopening in 1976.

In 1976 and 1977, when Japan began to acquire, first an ample, and before long an embarrassing, external payments surplus there was a progressive loosening of government controls on all forms of yen lending (both samurai bonds and syndicated loans). The amount of "Euroyen" or external yen in circulation outside Japan accordingly rose from an estimated \$2.7bn (equivalent) at the end of 1977 to \$6.2bn a year later.

The advance of the yen as an international currency coincided with the rapid strengthening of the yen-dollar exchange rate. This bit a peak in October 1978 when the yen briefly touched the level of 175 to the dollar.

By the end of 1979, however, soaring oil prices had once again shifted the current account from record surplus into record deficit. The yen fell sharply between the spring of 1979 and early 1980, finally bottoming out in April this year when the rate stood at more than ¥280 to the dollar. From then on things began to look up as a yen defence package announced early in March by the Ministry of Finance belatedly took hold, and when U.S. in-

terest rates at last passed their peak.

The March 1980 defence package took a completely different approach to managing foreign exchange problems from the strategy adopted after the 1973 oil/yen crisis. Rather than attempting to stop the outflow of yen into international hands, the direct result of Japan's need to finance the oil-created deficit "below" the bottom-line of the balance of payments, Japan is also playing a significant role in the overall recycling of petrodollars.

Estimates of petrodollar flows are basically guesswork. Government and private estimates, however, indicate that Japan is now recycling about 10 per cent of OPEC wealth after a late start. This is in line with Japan's share of the world GNP. One Japanese bank guesses that the Japanese share breaks down roughly (as of April) as follows:

Europen deposits in Japanese banks overseas: \$3.4bn (out of total OPEC Eurocurrency deposits of \$12.15bn); free yen deposits: \$3.4bn; other foreign currency deposits in Japan: \$5.6bn; and anywhere from \$7.5 to \$16.6bn in Japanese stock and bond holdings.

Impressive

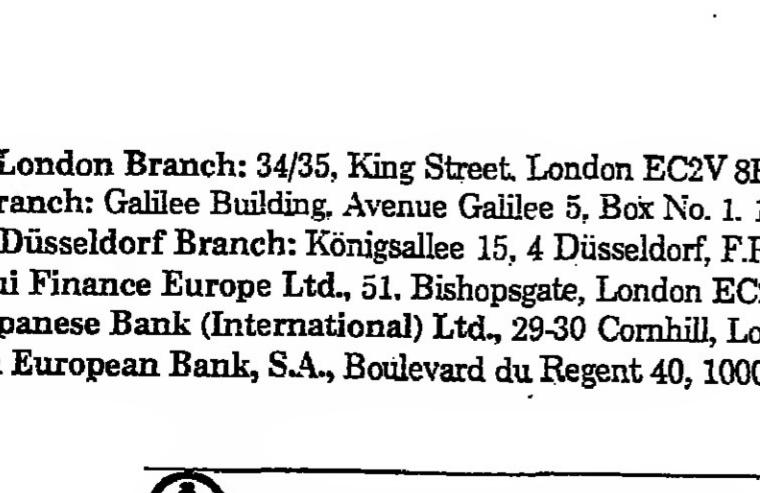
The result has been impressive. The Ministry of Finance estimates that free yen (which means yen that can be freely moved in and out of Japan) deposits by central banks increased at a rate of over \$1bn between April and June. "Impact" loans to Japanese corporate borrowers hit \$600m in May. In the space of two months from the start of April the yen appreciated nearly 20 per cent to the ¥215-220 range which MoF feels is an appropriate level.

Senior officials at MoF were particularly anxious to attract an inflow of funds from the Middle East oil producers, and missions were despatched to offer national bonds and encourage other investment. The authorities were a bit red-faced about the fact that they had turned down an offer from Saudi Arabia just last year to roll over a \$1bn deposit made through an international credit crunch. The Finance Ministry did, however, manage to get an agreement to place a fairly large sum of national bonds with the Saudis.

The recent inflow of foreign funds into Japan, especially from the oil producers, was large enough to raise current estimates of offshore yen to the equivalent of more than \$15bn (or more than twice the figure of 18 months ago). The MoF is paying very close attention to this development, and is in fact planning to make its first disclosure ever of estimates of non-resident yen holdings, similar to estimates made by West Germany. This will

Japan has not been as successful at getting the Arabs to invest in Japanese stocks as it might like. This is partly because there are few Japanese advising the Arabs on where to invest. Stock buying has received a lot of attention since it was disclosed that the Arabs were buying shares in some of Japan's better known companies. The Government says, however, that in no case is the percentage of shares now held more than 15-20 per cent. Nobody in Japan is expecting Arab takeovers, and it seems that the Arabs, with much less experience in investing in Japan than the U.S. or UK, will be rather cautious anyway.

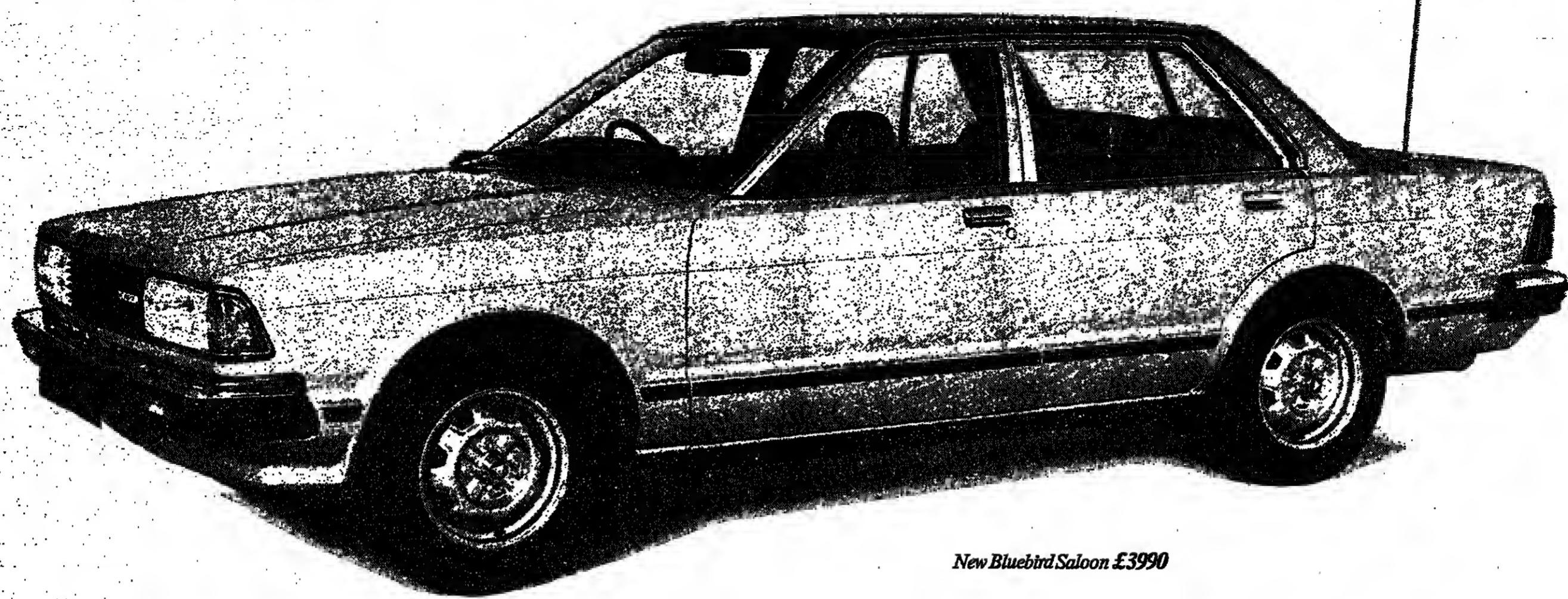
The yen's position as a world currency is still minor when compared with that of the dollar. There are estimated to be over \$600m in Eurodollars in the market. There is, also, no reason to think that Saudi Arabia or other oil producers are soon going to begin accepting payment for oil in yen. But as long as Japan's economy continues on a sound course, and the yen maintains its purchasing power, the process of internationalisation appears unlikely to go into reverse.



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مكتاب المصرف

The New Datsun Bluebird.



New Bluebird Saloon £3990

Now, Japan has produced the best car ever for Europe!

This is the New Datsun Bluebird. Handsome, functional elegance in a new shape for Europe.

A crowd-stopper without a doubt.

But that's only the start of the story. Because within the new styling, Datsun have incorporated the most modern technology the automotive sciences can provide.

The result is the New Bluebird range - the quietest, most balanced and refined cars that Nissan designers have created. At a price that represents the ultimate in sheer value!

The first Datsun Bluebird was unveiled 21 years ago and since that time, successive models have established a world-wide reputation for performance, economy of operation and durability. Over 4,500,000 Bluebirds have been produced for world markets.

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High performance, high economy characteristics are engineered into every New Bluebird to produce one of the world's top family cars.

The New Bluebird bodyshells are pressed from a very advanced steel which includes manganese and silicon; this new metal giving high strength, light weight and high durability characteristics.

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All incorporated in saloons that now have lots more space and sumptuous comfort for driver and passenger alike, together with a long list of special equipment at no extra cost.

There are four models in the New Bluebird range. Two saloons with the choice of a 1.6 litre or a 1.8 litre engine, a very roomy and good-looking 1.8 litre estate car and a Bluebird coupé with sparkling

performance from a special version of the 1.8 litre power unit. The engines are of modern overhead camshaft design to give 100 m.p.h. performance yet, at the same time, use low grade petrol very sparingly indeed.

But the overall economy of the New Bluebird is not confined just to good fuel consumption figures; it has as much to do with Datsun's legendary reputation for mechanical reliability. Like all Datsuns, these new Bluebirds are built to spend their time on the road, not in the workshop.

Executive Style Equipment

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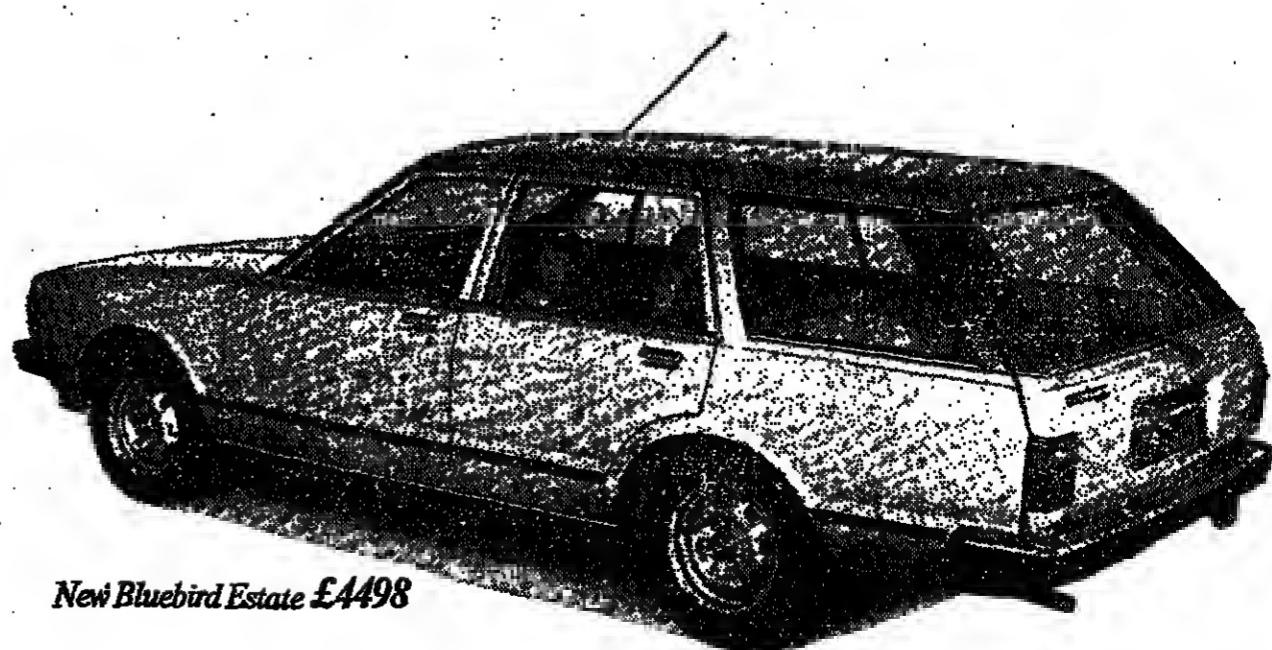
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Long-term strategy aims at energy balance

ENERGY CONSUMPTION

MARK MEREDITH

IT SEEKS fashionable to perspire slightly in the offices of the Energy Conservation Centre in Tokyo. The Vice-President has removed three of the seven sets of strip lighting in his office and the visitor is asked if he would like to remove his jacket; as the air-conditioning operates at an exemplarily low level.

Japan's awareness of the energy crisis, of the need to reduce oil consumption, to reduce energy waste, cut back on the use of electricity and to press on with finding alternative sources of power is more obvious than in other Western industrialised countries.

This sensitivity is largely due to Japan's vulnerability to possible energy shortages. About 89 per cent of the fuel needed to power this industrial giant is imported and there is precious little in the way of home-produced fuel to fall back on if these imports were to be threatened. Nor are there friendly allies close at hand with more plentiful stocks or resources to help Japan through a bad patch.

The Japanese have worked out a medium to long-range energy strategy which works like this. From 1985 onwards the Government wants to keep the level of imported oil constant at about 365m kilotonnes (6.3m barrels a day) and to raise the contributions from other energy sources such as nuclear and coal-fired power as well as alternative energy to meet the projected increase in demand.

Demand meanwhile will be restrained through an active conservation policy. For example, in 1985 overall demand is likely to equal 662m kilotonnes a year (11.4m barrels a day) of oil but conservation should be able to reduce this to 502m (8.6m b/d).

In terms of imports only France approaches Japan in terms of dependency on foreign supplies, bringing in 78 per cent of its energy requirements per year. The U.S. imports only 19 per cent.

For Japan, with the highest growth rate in the Western in-

dustrialised world, the need to cut back on energy has presented major problems. The Government's plan is to gear together reduced consumption and the development of alternative energy sources to maintain a high rate of growth—5 or 6 per cent.

To some critics this plan ill-suits Japan's real requirements. Should Japan drive itself headlong into an international economic slowdown, pinning exports for an international market which is contracting through recession and with a growing sensitivity to heavy imports?

Mr. Tetsuo Tomitate, director of the Research Division of the Institute for Energy Economics, feels the high growth rate in the fact of the energy crisis is wrong. He likens it to ordering an obese middle-aged man to eat a great deal after excessive jogging.

"The trouble is that a preoccupation with an illusion of rapid growth, which is unfit for actual physical strength, has led Japan to map out unrealistic targets for development of alternative energy sources without any specific measures for their attainment," he wrote in a recent assessment. Real growth targets in the face of mounting oil bills should be more appropriately set at 3 to 4 per cent, he believes.

The Institute for Energy Economics sets much lower estimates for consumption over the next 10 years in line with lower growth rates, forecasting a potential supply of 534m kilotonnes of oil equivalent in 1990 compared with the official forecast of 700m.

Nevertheless the Government considers its growth targets of 5 to 6 per cent as vital to maintain employment and profitable levels of production.

Reduced growth, not to mention reduced consumption, confronts the Japanese at a time when they are developing a real feel for prosperity.

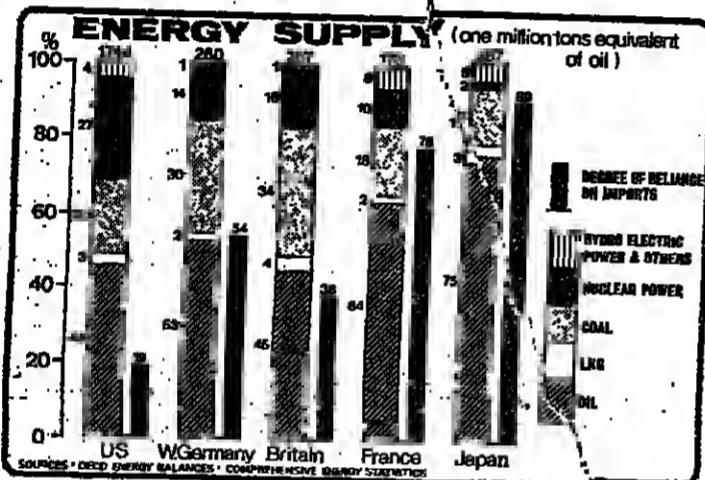
Booming consumer and leisure industries make it hard to think of rationing.

Lightly

Yet in conforming to the Government's ambitious energy conservation programme, the individual energy consumer in Japan comes off fairly lightly. He loosens his tie at work, uses his air-conditioning less in summer and drives less. Much of Japan has a moderate winter compared with Western Europe and heating bills are not as heavy. According to the Paris-based International Energy Agency, Japan has the lowest per capita energy consumption in the residential and commercial sector.

But the savings in industry are the ones that count. More than all the other leading industry uses a larger share of total energy consumption—it works out at nearly 80 per cent of overall domestic usage. Here the application of conservation has been impressive and at times ingenious.

Just over a year ago the industrialised nations met in Tokyo and agreed to reduce dependence on oil. Following up this meeting, the International Energy Agency prescribed a five per cent cut in oil consumption for its members.



Inescapable dependence

OIL

RICHARD HANSON

IN THE days when it was cheap, oil helped Japan perform economic miracles which astounded the West. It has become, however, the acknowledged "Achilles heel" of the economy, and may retain that position for at least the rest of this century.

First, Japan can do very little to reduce its dependence on imported oil, supplies of which are becoming harder to secure, and more expensive, because it has virtually none of its own. Secondly, its efforts to cut back on the amount of oil used in the economy will probably fall short of the targets that Government planners are aiming at. This is mostly because other energy sources will be slow coming on stream even up to the end of this century. It is also doubtful whether Japan will be able to use the oil it buys any more efficiently than it already does to maintain real economic growth at a desirable pace.

Combination

Japan absorbs nearly 9 per cent of world oil output, roughly the same that its economy accounts for in the world GNP. Last year 76 per cent of those imports came from the Middle East. More than a quarter of the 5.4m barrels a day Japan buys on average comes from one country alone, Saudi Arabia, a place few Japanese know very well. At present the combination of a pricing dispute and U.S.-inspired sanctions has stopped shipments from Iran completely, a country which last year provided 13 per cent of Japan's oil.

It is very easy indeed to paint a gloomy picture of Japan's extreme vulnerability in terms of oil. The fact is, however, that despite some near-misses and a good deal of stumbling over the seven years since the first oil crisis, Japan so far has not suffered too greatly from its dependence on oil. This is mainly because it has been able to afford the cost of dearer oil imports (although not without incurring a huge current account deficit). At the same time Japan has yet to face a serious disruption of its supply lines.

Japanese officials can be fairly certain that this year at least they will have all the oil they need as a result of reduced demand and healthy supplies

worldwide. The volume of Japanese oil consumption has remained static for about the past five years. Some experts are predicting that use could actually fall this year by about 200,000 barrels a day below last year's 5.4m barrel average. Prices for many petroleum products have already shown signs of dropping. If further disruptions in supply do occur, Japan now has more than 100 days' consumption in private and official stockpiles, an amount which is actually putting a strain on storage facilities.

Japan admits that to have allowed itself to become dependent on oil for nearly three quarters of all forms of energy, it consumed was a serious mistake. It would have been difficult, however, to have done otherwise and still achieve the high economic growth it did. The Government itself was the driving force behind the switch from coal to oil for power generation in the late 1950s and 1960s, the conversion, ironically, was just about completed in time for the December 1973 quadrupling of OPEC oil prices. (Japanese planners can take some comfort, however, from the fact that burning oil did help reduce air pollution, a factor which is making reconversion back to coal difficult.)

The Government now realises all too well the dangers of heavy dependence on oil. It has set a target of reducing oil to 50 per cent of total energy consumption by 1990. This assumes, however—and very optimistically—that nuclear power can reach 535m kW (compared with 155m kW this year) and that steam coal imports will jump to 53.5m tonnes a year (from 2m tonnes in 1979). The prestigious Institute of Energy Economics, a private group, forecasts that nuclear power generation will more likely reach only 30-35m kW and that steam coal imports will rise to 23.3m tonnes.

Leaving aside the question of overall demand for oil, Japan has also learned the dangers of depending too heavily on any one source of supply. Top priority has thus been placed on diversification. The importance of finding more oil supply sources came clearly into focus last year when Japan found itself progressively deprived of supplies from the oil majors as a result of a "third party" dispute between Iran and the U.S.

The majors provided Japan with most of its oil from the time when oil imports were resumed in 1950 until last year, when the Iranian crisis dis-

ruted world supplies. During 1979, however, the majors, with a few exceptions, stopped supplying oil to non-affiliated companies in Japan.

A little history is useful in understanding the complex organisation of the oil industry in Japan. In 1960, to satisfy OECD rules on free trade, Japan reluctantly ended a system of quotas on oil imports which had kept the majors at arm's length throughout the 1950s. Arm's length, of course, still meant that all of Japan's oil was bought through the majors.

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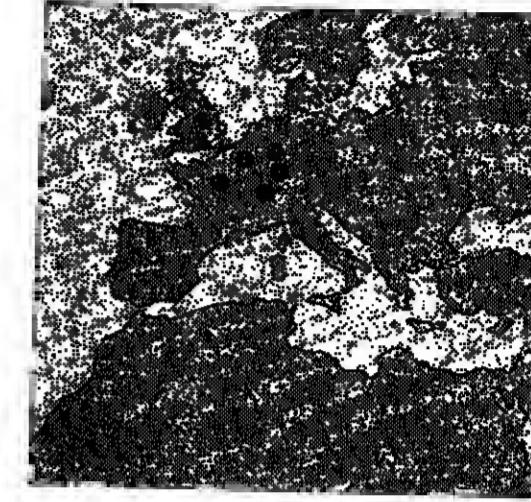
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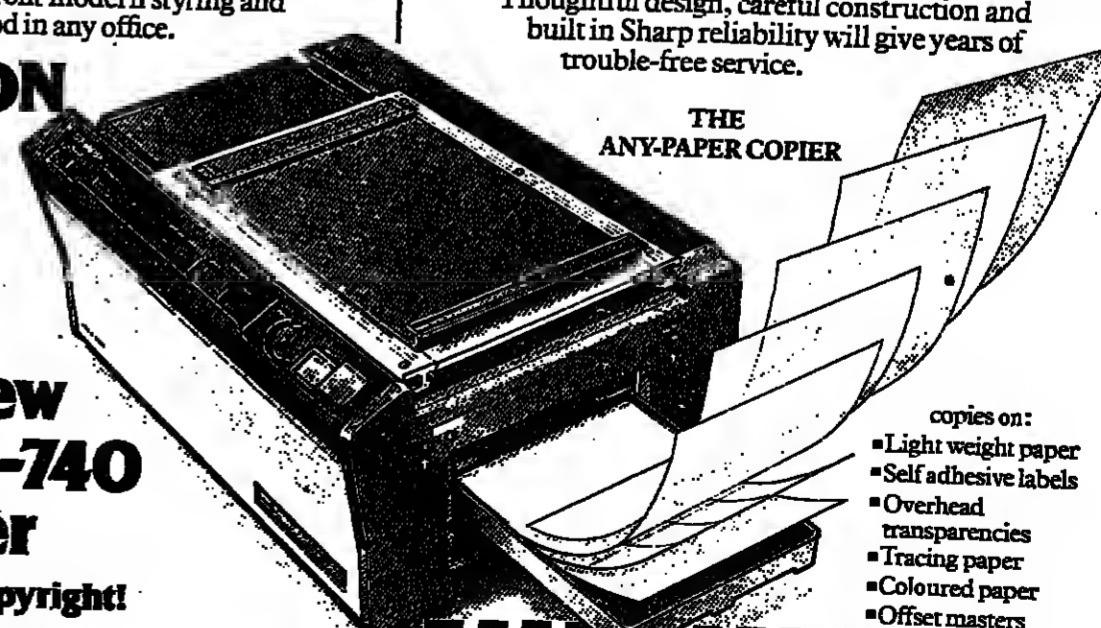
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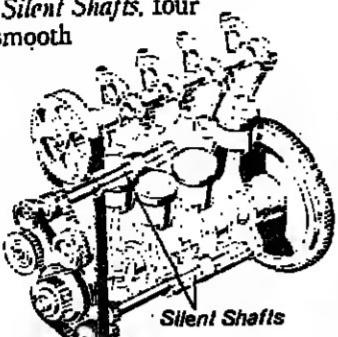
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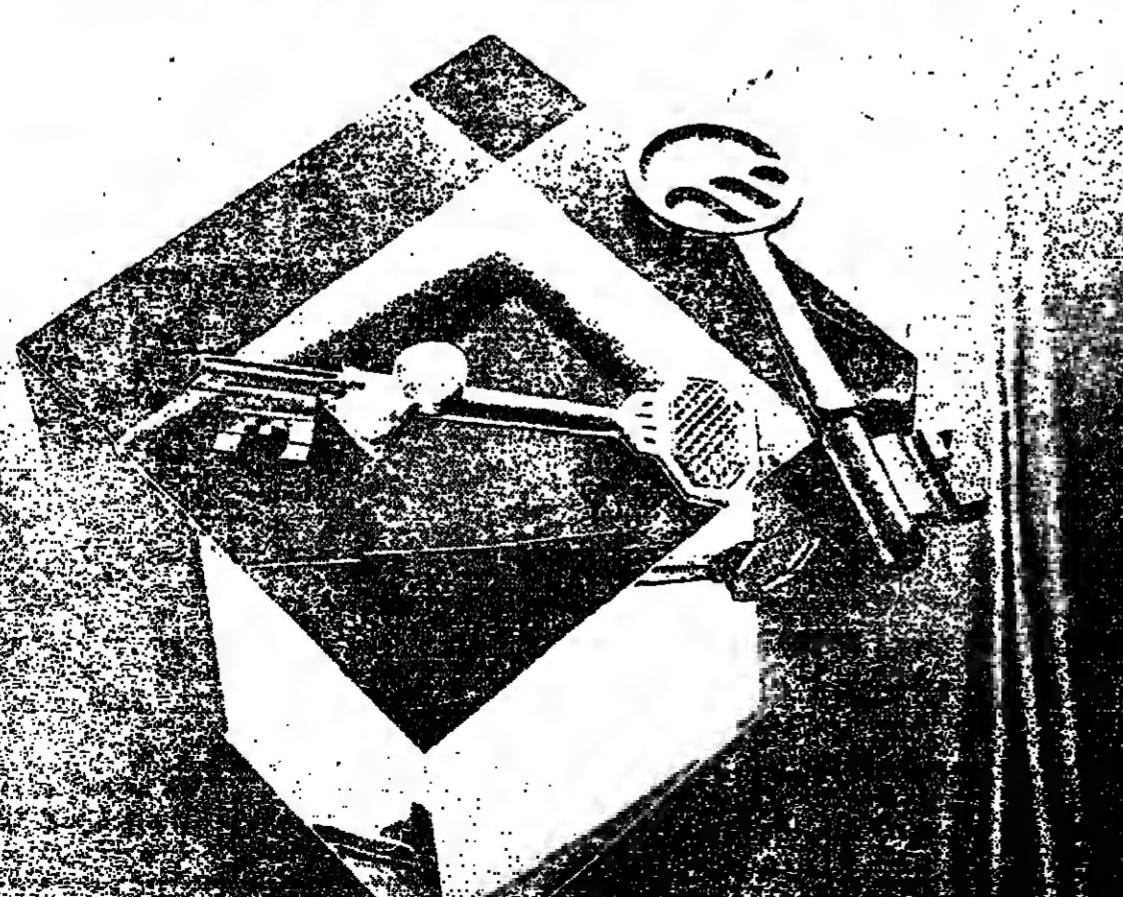
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Comeback depends on cost and availability of supplies

COAL

MARK MEREDITH

Hordes of joggers emerge each workday noon to run around the moat of the Emperor's palace in Tokyo. Some of them, pausing out of breath at a stoplight, doubtless reflect with relief that the fitness fad had not caught on 15 years ago. For in 1965, in the area of Tokyo Bay, seven coal-fired power stations belched smoke and fumes into the air, helping to establish the Japanese capital as one of the most polluted cities of the world.

In those days the straightforward solution was to move into cheap and easy-to-handle oil. Today the smog has improved considerably.

By the time of the two oil price shocks of the 70s, Japan had virtually eliminated coal-fired power and largely replaced it with oil. Oil now fuels half the 245 power stations in Japan compared with 20 per cent of oil thermal power in Europe and the U.S.

In the search for a way out of oil following the price rises, coal presented a clear option. In its long-range plans, the Government-backed Electric Power Development Corporation (EPDC) calculated that demand by 1990 would nearly double to about 840bn kWh.

Nuclear power and liquid natural gas would fuel about 30 and 25 per cent respectively of power output. Oil would still be needed to run about 25 per cent of requirements—or less if possible.

Coal, under the plan, would make a comeback from its present 4 per cent of electrical output to fuel between 9 and 11 per cent.

Moving back—part of the way—into coal meant the construction of coal-fired power stations

or the conversion of oil-fired to coal; the development of supporting infrastructure for coal, including transport and stockpiling centres; the development of secure and reliable trade links for the import of steaming coal for the power stations because Japan's own coal production was costly and limited. It also meant depending on a manageable price for coal imports.

Sixteen of the 245 power stations in Japan run by the nine private power companies are still fired by coal. Most of them are small stations in remote areas with a relatively low output. The EPDC, which follows through Government energy policies and operates the national grid system, has begun work on five new stations and another five are planned. Many are on the coast, with facilities for off-load ships and stockpiles.

What did not fit the power companies' demands, nor expect was the sudden demand for steaming coal from the cement industry in Japan, which wanted about 7m tonnes a year after successful conversion of its kilns from oil to coal.

This demand helped coal keep up the price of steaming coal from Australia, for example, from just over \$20 a tonne to about \$35 a tonne.

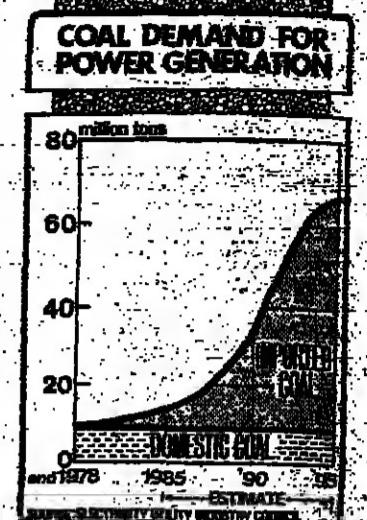
The Foreign coal prices generally rose about 70 per cent in the last year, causing some painful re-examination of the eventual cost of coal-fired power.

Imports of steaming coal were tiny beside the long-term contracts for coking coal to supply Japan's steel industry. Steel required over 50m tonnes of coking coal last year and its requirements were expected to rise with signs of a return of steel demand and the use of more coke to replace oil in blast furnaces.

Australia is by far Japan's biggest source of coal. Australian mines supplied over 40 per cent of imports in 1978, with the U.S. and Canada supplying about 20 per cent each.

The extensive programme of investment in Australian mines was paying off in secure sources of supply but not in price.

Another reverse came with an Australian decision to reject an equity bid by the EPDC to acquire a 19 per cent stake in the Blair Athol Coal Company of Queensland. After examining the amount of foreign capital going into the mine, the



Government said that the Japanese proposals went against its guidelines of restraining 50 per cent Australian ownership. International demand for steaming coal was reviving fast. In the view of economists at the Institute for Energy Economics, the gap between high-grade coal and low-grade oil was starting to narrow.

Coal suppliers were also heartened by the growing prospects for coal liquefaction. Rival Japanese projects were under way in Australia. The overall effect on prices did not please Japan's electricity power managers.

Clash
A disappointed Mr. Satoru Murai, Director of Fuel for the EPDC, told the Japan-Australia coal conference in Canberra earlier this year that the current situation has reached the point where different positions (suppliers and users) can cause a fundamental clash of views about pricing under the kind of long-term contract which guarantees long-term demand and facilitates planned production. If we are going to be affected by spot prices every year, we cannot establish a stable relationship with one another.

Australian coal producers did not find convincing the talk of diversifying to the U.S., Canada, South Africa, not to mention China.

At home the Japanese responded by starting negotiations between coal users in the steel, cement and power industries to work out a consensus in the best Japanese tradition on orderly market practices to obtain the best supply conditions.

One proposal from the Coal Development Company is for the creation of coal centres in the north and south of Japan, each with a capacity of 10m tonnes of coal a year to allow for stockpiling against price fluctuations and supply interruptions. The consumers could take encouragement from Japan's own coal mines. The few remaining mines produce about 20m tonnes a year but costs are high and attempts by the mines to increase prices have only driven users to look to imports. The industry now relies extensively on subsidies and capacity is not expected to expand over the next 10 years.

Programme faces special problems

NUCLEAR POWER

CHARLES SMITH

THE SUCCESS or failure of Japan's attempt to reduce its dependence on oil to 50 per cent of total energy requirements by 1990 depends, most critically, on what happens to its nuclear power programme. Nuclear power has received the heaviest emphasis in the Government's energy development strategy to date (at least in terms of budgetary spending) because it is cheap compared to either oil or liquid natural gas and clean (at least in a conventional sense) compared to coal.

Nuclear power in Japan, however, as in other countries, has encountered some very special problems of its own. These can be classified under two broad headings of "public acceptance" (meaning the extreme difficulty of getting the general public to agree to the siting of new power stations because of fears about safety) and "international pollution" (meaning the complex series of issues standing in the way of the development of a nuclear fuel cycle and the introduction of new and more economical types of reactors). As a result of the two sets of problems Japan's targets for the development of nuclear generating capacity have been repeatedly scaled down—and may yet have to be cut back further.

Infancy

At the time of the first oil crisis (1973) when actual nuclear power generation was in its infancy it was hoped that 60m kW of electricity could be produced from nuclear reactors by the mid-1980s. The situation today is that 21 reactors are in operation with a total generating capacity of 154m kW (equal to about 11 per cent of Japan's overall power generating capacity). A further seven reactors are under construction with a combined capacity of 5.8m kW and public acceptance problems have been resolved in the case of seven more (combined capacity 7m kW). This means that Japan has "in the bag" a total of around 26m kW of generating capacity.

Allowing for the time required to complete construction it is expected that roughly 25m kW of this total will come on stream by 1986, a year after the deadline set in the latest "modified" Government target

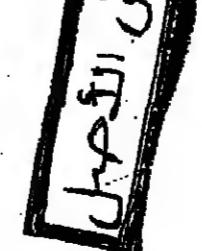
for nuclear power. The same "modified" target calls for generating capacity to hit 51m to 53m kW by 1990 but officials at the Ministry of International Trade and Industry responsible for co-ordinating the nuclear power station building programme admit that this will be achieved only after the approval over the next five years or so of between 4m and 5m kW of generating capacity per year, a much higher figure than has been achieved to date.

The approval of new nuclear

CONTINUED ON NEXT PAGE

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Three main areas of research

NEW ENERGY SOURCES

MARK MEREDITH

NEXT TO THE U.S. Japan is the world's most energy-hungry nation. It accounts for 10 per cent of the energy consumed by the world; it needs to import 89 per cent of its fuel, and 76 per cent of its energy requirements are from oil.

Faced with rising oil prices and increasingly uncertain or unstable petroleum supplies, the need for alternative source of energy are as obvious as they are imperative. After some experimentation and a long look at the options, Japan has narrowed down its search for alternative power to three areas: solar power, conversion of coal to oil, and geothermal power from Japan's volcanic areas.

The cost is horrendous—\$2,400/bbl—budgeted between now and 1990. But then the projected oil bill alone in 1990, according to the Institute of Energy Economics, could be \$43,000/bbl (\$207/bm). If Japan keeps to its oil import target of 6.8m barrels a day approved at the Tokyo Energy summit of last year.

The contributions of the three main ventures into alternate energy will only make about 5 per cent contribution to total energy requirements by 1990. Yet this bite represents the equivalent of 33.3m kilotonnes of oil a year: 21.4m from converted coal, 5.4m from geothermal power and, 6.5m from solar energy.

While holding oil imports steady from 1985 onwards, the main burden of oil replacement through the 1990s will fall on the conventional systems: nuclear power, a revival of coal-fired or liquid natural gas, thermal power and, to a smaller degree, hydro-electric power.

Supervising the research and development of new energy is the Sunshine Project of the

Ministry for International Trade and Industry. The project takes its three energy candidates through their experimental paces and then attracts private funds to nudge viable systems gradually into commercial usage.

Japan has been slow on the mark in the field of coal liquefaction. This may be due to a lack of overall policy on its development.

Several Japanese firms are involved in liquefaction projects abroad, which may have restrained plans to push ahead domestically in the field. Rival Japanese companies are developing oil from brown coal in Australia, and Japan along West Germany and the U.S. is investigating liquefaction development in the SRC-II project in the U.S.

There is one big advantage in working on liquefaction projects abroad in the slightly whimsical view of one economist: it frees more OPEC oil for Japan.

After a critical self-assessment last last year the Sunshine Project launched its "accelerated promotion strategy," which winnowed out the three best potential energy sources and at the same time put maximum two ways of coal liquefaction: Y1.680bn is to be spent over the next ten years.

Centred

Economists in Japan reckon that liquefied coal will become economic when oil prices have risen to about \$50 a barrel. Research has also shown that turning coal into oil as opposed to gas has the best future. Development is now centred on two ways of coal liquefaction: direct and by solvent extraction.

Both systems mix powdered coal with heavy oil in a reactor under high temperature and high hydrogen pressure to extract oil. A test plant in Nagasaki can produce oil from one tonne of coal a day and two other plants are being built as pilot projects.

The Islands of Japan are volcanic and beneath the surface are thought to be sufficient reserves of geothermal energy.

to satisfy four times the present energy demand.

But finding the right spot to tap this energy and finding the right system has proved difficult. Six geothermal power stations are presently in operation with output of about 200 MW.

Development is concentrated on using the reservoirs of hot water and tapping the thermal energy of volcanoes and hot dry rocks. One project would pump water down through hot rocks, using the returning steam to power a generator.

Making use of the volcanic strength beneath Japan is not only difficult—it is dangerous. It involves high pressures, high temperatures, corrosive chemicals and noxious gases. That said, there are many beneficial spin-offs once this power is harnessed. Hot geothermal water, for example, can be used to heat greenhouses, swimming pools and apartment blocks.

Sun power for the home looks as though it may become as successful as the current fast food craze which is sweeping Japan. Solar panels for water heating are sailing as fast as they are made. One company, Cofco Seisaku Sho, turns out 26,000 panels a month and sales revenue rose from Y700m in 1978 to an estimated Y150b last year.

The Sunshine Project wants to build the integrated solar house, where the sun not only heats the water but also heats the house and runs the cooling system. The sun would also warm up high-efficiency storage heaters to give out heat on rainy days.

Generating electricity from the sun works two ways: first by concentrating the sun's rays to heat water, turning it to steam to turn a power generator, and secondly, soaking the solar cells directly into electrical current.

In a solar thermal station of the first type a field of mirrors surrounds a tower and the sun's rays are bounced back to the top of the tower to a heat collector.

The individual mirrors pivot

on their stands to track the sun during daylight.

The other way to capture sun power has been through solar cells—photovoltaic generation. Sunlight strikes two types of semi-conductors in a cell to create electricity. The cells are expensive and the brunt of research is currently aimed at eventual mass production of cheap solar cells. A new way has been developed of forming a silicone ribbon for the cells which reduces production costs to a fraction.

Other technological breakthroughs should bring this form of power generation on stream well before solar thermal power but neither system is likely to contribute much before the 1990s.

Itching

Other off-beat energy sources are, in general, confined to laboratories. There are doubtless scientists itching to proceed with the production of oceanic thermal energy.

One day this would launch a giant needle-shaped platform into the sea to float vertically. Power would be generated through the difference in temperature between the water coming into the deep end of the needle and the warmer water near the top.

One day too hydrogen may be developed as a source of Japan's energy. Hydrogen is efficient and clean but requires energy to produce it in the first place.

Behind all the search for alternative energy and the hope to reduce the dependence on oil is Japan's greatest power base—its technical capacity and adaptability. Within the sprawling electronics industries and the large users of energy within industry are both the know-how and the facilities to react to mounting energy costs and the markets in new sources of power.

The move towards alternative energy is slow getting off the mark and modest in outlook in Japan. The continuing rise in imported conventional fuels is likely to quicken the tempo and broaden the outlook.

The individual mirrors pivot

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Emphasis

CONTINUED FROM PREVIOUS PAGE

station and local interests (such as fisherman's lobbies), who oppose buying it on their territory.

Some advocates of nuclear power have proposed a sweetening of the pill for local residents by introducing a system under which communities located close to nuclear power stations would be given a discount on the normal electricity tariff. This idea, borrowed from France, has some serious bugs, however, so far as Japan is concerned.

The problem is that existing legislation requires that electricity tariffs should be uniform throughout Japan. A second is that many nuclear power stations are located outside the franchise area of the utility companies which operate them. Tokyo Electric Power Company, for example, has located its nuclear power stations mainly

in the northern part of Honshu Island where local power requirements are met by another company which operates only conventional power stations.

The task of "selling" nuclear power to a reluctant nation by means of financial incentives or improved safety precautions is one of the main challenges facing the Japanese Government in the nuclear field. A second challenge is to guarantee the industry's long-term viability by developing new types of reactors and filling gaps in the nuclear fuel cycle.

All but one of Japan's 21 reactors are at present the American light-water type whose uranium consumption is relatively heavy—not to speak of disposal problems created by spent fuel. Japan recognises the need to move on from light water reactors to fast-breeder reactors perhaps via the interim

stage of an Advanced Thermal Reactor (ATR) which would burn both uranium and plutonium. The cost of developing original Japanese technology in these areas, however, is extremely high and the fast breeder reactor, in particular, poses a set of delicate problems in international relations—their American opposition to its development.

The most that can be said about Japan's reactor programme today is that it is being pushed cautiously forward while a careful watch is kept on possible shifts in U.S. policy. A crucial decision, due to be taken before the end of 1980, will be whether to proceed with a programme for the development of a Japanese ATR which has already cost around Y120bn and which is now ready to move forward from the phase of operating a prototype reactor to that of building a "demonstration" model (one-third commercial size).

Japan has achieved good technical results from the pilot ATR (known as Fugen) but doubts exist about the length of time for which ATRs can be useful before the coming age of the fast-breeder.

In the area of nuclear fuel cycle development Japan's most pressing problem is to provide itself with the capacity to reprocess its own fuel from 1990 onwards, when existing reprocessing contracts with France and the UK will have come to an end. The Government has so far constructed a pilot processing plant with a capacity of 200 tonnes of fuel per year but a much larger plant, able to handle up to 1,200 tonnes, would probably be needed to deal with Japan's requirements during the 1990s.

A private company, the Japan Nuclear Fuel Services Co., has been formed to build such a plant (with the bulk of equity held by Japan's nine electricity generating utilities). The financing of the venture, however, has yet to be discussed in any detail and doubts persist about the attitude of the U.S.

Under its present bilateral agreement with Washington Japan is obliged to seek American approval for any plans to reprocess nuclear fuel burned in light water reactors if the fuel was originally enriched by the U.S. (a condition which applies to about 90 per cent of the fuel used in Japan). American attitudes to the proliferation of reprocessing activities have been negative to say the least under the Carter Administration and there is a risk—if only a small one—that the project could be blocked by Washington.

Because the nuclear fuel cycle in Japan is not yet anywhere near completion and because of unresolved doubts in other areas (such as the eventual cost of demolishing existing nuclear reactors) there is no certainty that nuclear power will be as cheap throughout the 1980s as it is today. Nuclear power stations should, however, continue to cost less to operate than conventional oil-powered stations, and far less if the cost of fuel alone is considered.

Because of this and the sheer impetus built up by the massive research and development expenditure which has already been undertaken, Japan seems certain to press ahead with its nuclear programme. Its current position as a "junior partner" to the U.S. in the field of nuclear power would seem likely to change very substantially by the end of the decade as nuclear reactors based on indigenous Japanese technology replace the U.S. current generation of light water reactors.

As a force in world markets, the Japanese nuclear industry has yet to make itself felt—exports of components in 1978 totalled a mere Y14bn and no complete nuclear "systems" have yet been sold abroad. In this field too, however, the industry probably has a considerable future.

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JAPAN VIII

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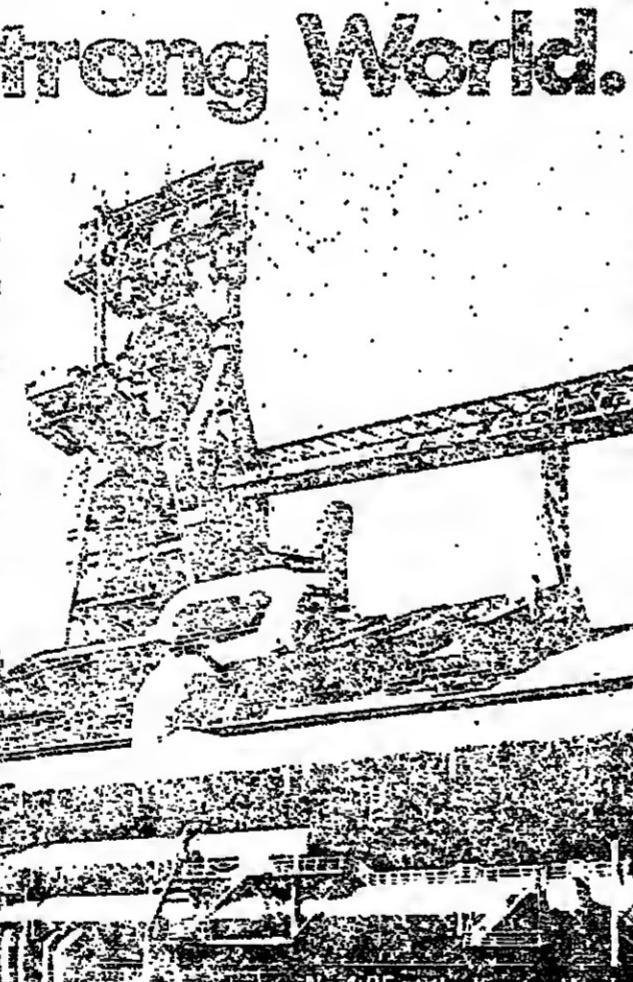
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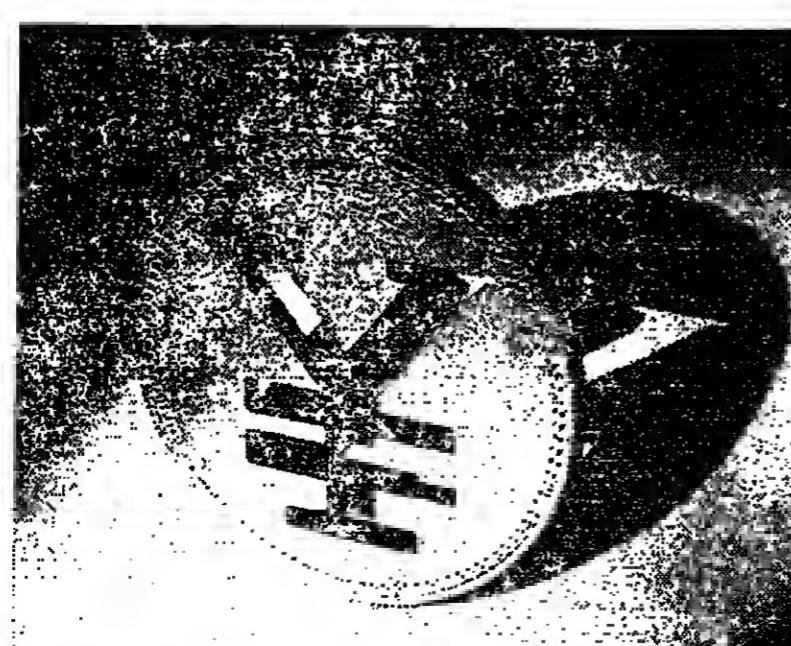
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High technology as driving force

INDUSTRIAL STRUCTURE

AYAKO DOI

THE INDUSTRIAL slogan of post-war Japan was: Catch up and overtake the industrial West. Today we can say that we have caught up on almost all fronts and overtaken in some areas. This means, unfortunately, that we no longer have a model to look to. So says the official who edited the "Vision of Japan's industry in the 1980s" published by the Ministry of International Trade and Industry (MITI) last April. The "Vision" will hopefully offer a new national goal of the kind the Japanese have been used to having since the start of the nation's modernisation.

The concept put forward in the MITI vision is that of a "technology-based nation". Japan, according to MITI, should become not only a highly efficient manufacturing centre but also a sophisticated laboratory of new and original technologies. "The period when Japan made progress by applying and improving existing ideas has already come to an end," the book argues. "What comes next should be a period of creativity and original initiative."

Realisation

MITI claims that the idea of using high technology as the propelling force behind the Japanese economy is widely accepted throughout the public and private sectors. Behind this consensus lies the realisation that the oil supply situation will not improve and may worsen during the next few years.

Japan learned from the first oil crisis in 1973 that it must acquire an energy-efficient, high value-added industrial structure. MITI concludes from this that in future Japan should concentrate on using its only natural resource — brainpower.

To cope with rising prices and an increasing scarcity of oil, Japanese industries have made significant improvements in energy conservations since the first oil crisis. Between 1973 and 1977 industrial energy consumption per unit of value added was reduced by 30 per cent. Savings were particularly great in the steel industry, which tried hard to switch its energy sources from oil to coal as well as to reduce total consumption. Last year the industry consumed less than half as much oil as in 1973.

Its Vision the Government and the electronics industry had invested Y70bn (\$320m) in developing VLSIs whose technology, many observers believe has now passed that of the U.S.

"The present friction between Japan and the U.S. regarding the computer and semiconductor industries," says Mr. Yuji Masuda of Noshi University in his book "High Technology Industry," "is an inevitable result of the shift in the Japanese economy towards higher technology industries founded upon such traditional heavy industries as steel, automobiles and electrical appliances."

Given the limits on spending some observers argue that Japan's contribution to improving the world energy situation should be in the field of energy conservation rather than in the more costly development of completely new energy sources.

"Our know-how in manufacturing processes is far superior to that of other countries," says a Nomura researcher. He cites industrial robots as the most promising product of the 1980s with the present Y36bn a year a year market set to grow at a rate of about 30 per cent per year for the coming decade.

Research

Development of new technologies involves, however, high risks and large investments. According to the Agency of Science and Technology, Japan spends only 1.7 per cent of its GNP on research and development, compared with 2 per cent for the UK and West Germany, 2.4 per cent for the U.S. MITI hopes to raise the ratio to 2.5 per cent by 1985 and to 3 per cent by the end of the decade.

For a start it has announced a plan to invest Y17bn (\$77m) over the next eight years for the development of fine ceramics, the material expected to replace metals in various products. The Government also wants to spend Y2,900bn (\$130bn) in ten years on the development and commercialisation of alternative energies, including Y147m on basic research

and development.

Although the increase in Japan's development expenditure may prove to be remarkable the amounts will still be small compared, for example, the \$20bn the U.S. plans to spend in ten years on the development of new energies. The absence of a significant defence industry, in the view of some members of the business community, is a grave disadvantage in this respect. Despite all the talk about technology there is a limit to what we can develop with the amounts of money that will be available.

say Mr. Masao Kitahara, an economist at the Long-Term Credit Bank of Japan.

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Superior

Another important trend in the development of Japanese industry has been the emergence of the services sector. The contribution of services to Gross Domestic Product (GDP), increased from 49 per cent in 1970 to 58 per cent in 1977 while the share of the manufacturing sector fell from 44 to 37 per cent (according to MITI). The service sector employs 55 per cent of the working population today compared with 47 per cent ten years ago. Japan like other industrial countries has thus become a service economy following the American pattern where 70 per cent of GDP is accounted for by service industries.

Structural change cannot alter the fact that Japan has been, and always will be, an export-oriented economy. Exports are the only way we can feed ourselves," says Mr.

Hiroshi Takechi, director in charge of research at the Long-Term Credit Bank of Japan. He predicts in his recent book on industrial structure that Japan's exports will be led by electronics, information and communication systems, energy saving devices and specialised materials. "Traditional" items such as cars and optical goods, however, will continue to thrive thanks to the higher degree of sophistication that will be made possible by electronics.

Nomura Research Institute's Mr. Tanabe is, on the other hand, concerned that too much emphasis may be placed on technology. "I doubt whether we can have healthy manufacturing industries without steel," he says. The first half of the 1980s, according to this view, may be a critical period for the Japanese economy in which the managers of basic industries will make or fail to make investments in renovating their production capacities. We will be able to tell during this period whether or not Japan is destined to follow the path of the U.S. steel industry in the 1960s," says Nomura.

Considering that Japan is gradually becoming an "aged society" — 11 per cent of the population will be over 65 years old in 1990, a proportion rising to 15 per cent in the year 2000 — the 1980s may also be the period which will determine whether the nation will be able to accumulate enough resources to support a comfortable old age.

Fine record of achievement in heat conservation

STEEL

MARK MEREDITH

PRODUCE A tonne of steel these days, even in Japan's most modern integrated steel mills, and half the energy used is lost. The work of coal, electricity and oil dissipates in steam or unclaimed heat from furnaces and hot metal.

As the single largest industrial user of energy in Japan, accounting for about 15 per cent of energy demand, steel was an obvious candidate for conservation. And from the steel industry have come some of the greatest achievements in conservation. Japanese steel plants today require much less energy than their main Western competitors, only two-thirds as much as British works, for example. The industry has also managed to cut back its energy consumption since 1974 by nearly 10 per cent.

Examining this industry through its use of energy helps explain the comparative good health of steel in Japan at a time of reduced international demand and excess production capacity.

In June the five steel giants — Nippon, Nippon Kokan, Sumitomo Metals, Kawasaki and Kokai Steel — announced profit increases over the previous year of 57 and 187 per cent. What really puts the figures in perspective is the fact that the industry made this kind of money while working at something below 80 per cent capacity.

A successful increase in steel prices, the effect on exports of a depreciation in the yen and recovering domestic demand all helped. But so too did the capital investment in energy saving and improved production techniques — Y4,600bn between 1973 and 1977 — which has started to pay off.

Motivation

These were investments which put Japanese steel technologically far ahead of its international competition.

World capacity in 1977 was calculated at between 80m and 90m tonnes a year, while actual production reached 69.2m. Despite the rising cost of energy there was little motivation for other steel producers to make the investments in energy saving and new production. This has left Japan in a strong position to weather the recession, compete effectively with producers among the newly industrialised nations, meet demand for new types of steel and, above all, save on its fuel bills.

Japan is the world's third largest producer of steel after the Soviet Union (150m tonnes a year), and the U.S. (123m), with an annual output of 111m tonnes. West Germany ranks fourth with 48m tonnes.

Taking a closer look, the checklist for an energy conscious steel industry might look something like this:

- Its efficient use of coal.
- Its recovery of waste heat and gas.
- The amount of steel produced by continuous casting, the most fuel-efficient method.
- Its yield or ability to make maximum use of production facilities.

Japan's steelworks import 90 per cent of their coking coal,

mostly under long-term supply agreements with Australia, the U.S. and Canada. The revival of interest in coal, especially steaming coal, as an alternative to oil-fired power has pushed up coal prices generally and spurred the drive for greater efficiency in the use of coal in industry.

To ease import bills, the steel industry has moved effectively to make the most out of the coking coal used in the blast furnace to create pig iron. Through improved monitoring and controls, the Japanese ratio of coke to iron has been pared down to below 430 kg (compared with 602 in Britain, 597 in the U.S. and 546 to the Soviet Union).

Two sub-points on the list for energy saving would be the use of dry quenching in iron-making to allow the recovery of steam for heating purposes.

Three such units are in operation in Japanese works. The other is the current study of ways to recover heat from slag.

Next on the checklist is the extent of continuous casting, one of the yardsticks of a modern steelworks. The thinking behind this German invention is to combine all the procedures of making crude steel into one operation to avoid reheating and recasting before the metal's arrival at the mills to be shaped. Under the traditional ingot system molten steel is poured from the blast furnace into ingot moulds which must be reheated to form slabs.

In energy terms, continuous casting uses up to two thirds less fuel than the primary mill ingot method. At Nippon's

Kimitsu works about 15 men backed by computers aid an array of television monitors run the continuous casting operation, guiding a sheet of molten steel poured vertically from the furnace onto a roller which curves to the horizontal leading the steel to a mould to be shaped into a slab.

In 1973 only about 20 of the steelworks were equipped with continuous casting; now, the ratio is about 50 per cent and may reach 70 per cent in 1982. This compares with 38 per cent in West Korea, 36 per cent in South Korea, 15.5 per cent in Britain and 14.2 per cent in the U.S.

The final point on the energy checklist, yield, should be marked in red. Yield shows efficiency of crude steel production, making maximum use of plant facilities in creating finished steel products. For example, crude steel production between 1970 and 1978 in Japan increased 11 per cent while the amount of finished products increased 22 per cent. More products were being made out of crude steel, reflecting more effective crude steel production and less waste. If the yield during this period had not risen seven per cent, another 50 tonnes of crude steel would have had to be produced to get the same amount of finished products.

Kawasaki managers, looking ahead, point out that the price of oil will in effect have to

CONTINUED ON NEXT PAGE

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JAPAN IX

Futuristic solutions will save energy on the farm

AGRICULTURE

MARK MEREDITH

THE ENERGY crisis has made Japan the home of the high-speed lettuce. Outside Tokyo a full grown 200-gramme lettuce has been produced in eight days instead of the normal one and a half months. While its nutritional value has yet to be fully analysed, the lettuce tastes better than the slightly tired variety trucked in long distances from the farms, according to Dr. Masamoto Takatsuki. Six years ago he was pulled off his research on lasers to work in the well-guarded laboratories of Hitachi, the electronics giant, on the development of high density urban gardening. There, on the outskirts of Tokyo, sun, soil, farmer and most of the expensive marketing operations were being bypassed to create truly cost-effective vegetables.

Behind the stainless steel doors of a laboratory cabinet, basking in the light of fluorescent strip lighting, absorbing three times its normal dose of carbon dioxide and supervised by microprocessor, a large test green pepper seemed about to set a personal best growth time.

Avoided

While the plant consumed energy in the form of constant lighting the other food production costs were avoided, giving the plant, even at this experimental stage, a cost value already at a par with the marketplace.

The shortage of energy in Japan has not had anything like the impact on agriculture as it has on industries such as steel and power. But the crisis has spawned an extensive and enthusiastic array of boffins ranging from Dr. Takatsuki to the local farmer reporting a system for heating his barn on the methane gas produced from manure.

Industry too has been quick to adapt to higher energy costs in farming.

Hitachi's researchers foresee the day, though possibly not for five or ten years time, and possibly not even in Japan, when vegetable factories will be built in industrialised areas. Vast endless belts will nudge vegetables through their abbreviated gestation. The plants would be grown hydroponically — without soil and suspended in water laced with a dose of fertiliser. As the plants only require the blues and reds of the light spectrum to grow and these are found in fluorescent lights, the sun would be redundant. A mass spectrometer will measure the light and temperature required for optimum growth and instruct a computer to memorise the treatment for use in mass production.

Mr. Yoshiyuki Kishida, dabbles in celestial agronomy, designing farms for future space stations. He also is president of Shin-Nomura



Inside the research laboratories of Hitachi, where work is proceeding on the development of high speed growing of vegetables

Company which publishes periodicals on farm mechanisation. He is another exponent of city gardening to by-pass marketing and fully expects the average home of the future to be equipped with an indoor conservatory growing a rice crop in 90 days on one shelf, with tomatoes, lettuce and other vegetables on other shelves all computer-guided to meet regular demand.

The Japanese agricultural sector consumed a relatively minute 46m kilolitres of oil in 1979—most of it used on mechanised equipment. But conservation studies were set up by both the powerful national farming co-operative and the Ministry of Agriculture, which launched a "green energy" programme. The response was impressive.

Professor Satoko Takeda came up with his plan for extracting oil from eucalyptus leaves. A Suzuki motorcycle was even successfully run on the fuel. Planting the forests was another problem as land is scarce but the suggestions, designs and inventions came thick and fast.

All the energy-saving measures, however, will do nothing to solve the fundamental problem of Japan's agriculture. Farmers constitute less than 10 per cent of the working population and contribute a declining part of the net national product—about 4.5 per cent in 1976. Their farms are small, averaging about 1.2 hectares (compared with an average 64 hectares in Britain and 157 in the U.S.) and farming land covers only about 13 per cent of the country.

But the ruling Liberal Democratic Party has traditionally needed the farming vote and the farmers, realising their political clout, have kept prices artificially high for their main commodity, rice, as well as for other produce such as grain and beef. Rice production, accounting for about a third of the farm produce, is protected by huge subsidies which pay for

the farmer approximately \$1,300 a tonne when the average world price is \$200. This has led to surpluses estimated last year at 72m tonnes.

Despite a self-sufficiency of about 70 per cent in the products it grows, Japan is still the world's largest net importer of agricultural products and is likely to become even more dependant on imports in future.

Efforts to diversify crops away from rice have met with little success and hopes of some degree of self-sufficiency in other crops seem remote.

The U.S. grain embargo against the Soviet Union following the invasion of Afghanistan struck a sensitive nerve in Japan. The Ministry of Agriculture recently announced an emergency contingency cultivation plan to meet a crisis in which half the grain imports were cut off. Were food imports to be halted, according to the Ministry, the totally planted acreage would need to be increased by 30 per cent, or 7.5m hectares.

Unwilling

The small farm units have effectively prevented more efficient farm management and sky-rocketing land prices have meant that farmers are unwilling to sell their plots. The farm population meanwhile declines as many farmers take up jobs in industry and tend their fields at weekends.

The surplus rice, says Mr. Kishida, the publisher-cum-space farmer, cannot yet be profitably converted in fuel—which would be a convenient solution. The advances already made in the production of rice wine, or sake, do not automatically mean four-star rice fuel can fail. Efforts are being made, however, to encourage rice consumption through inventions like rice champagne or rice whisky.

"One solution," said Mr. Kishida, and only half in jest, "is to convince the farmer to plant a large solar panel in his

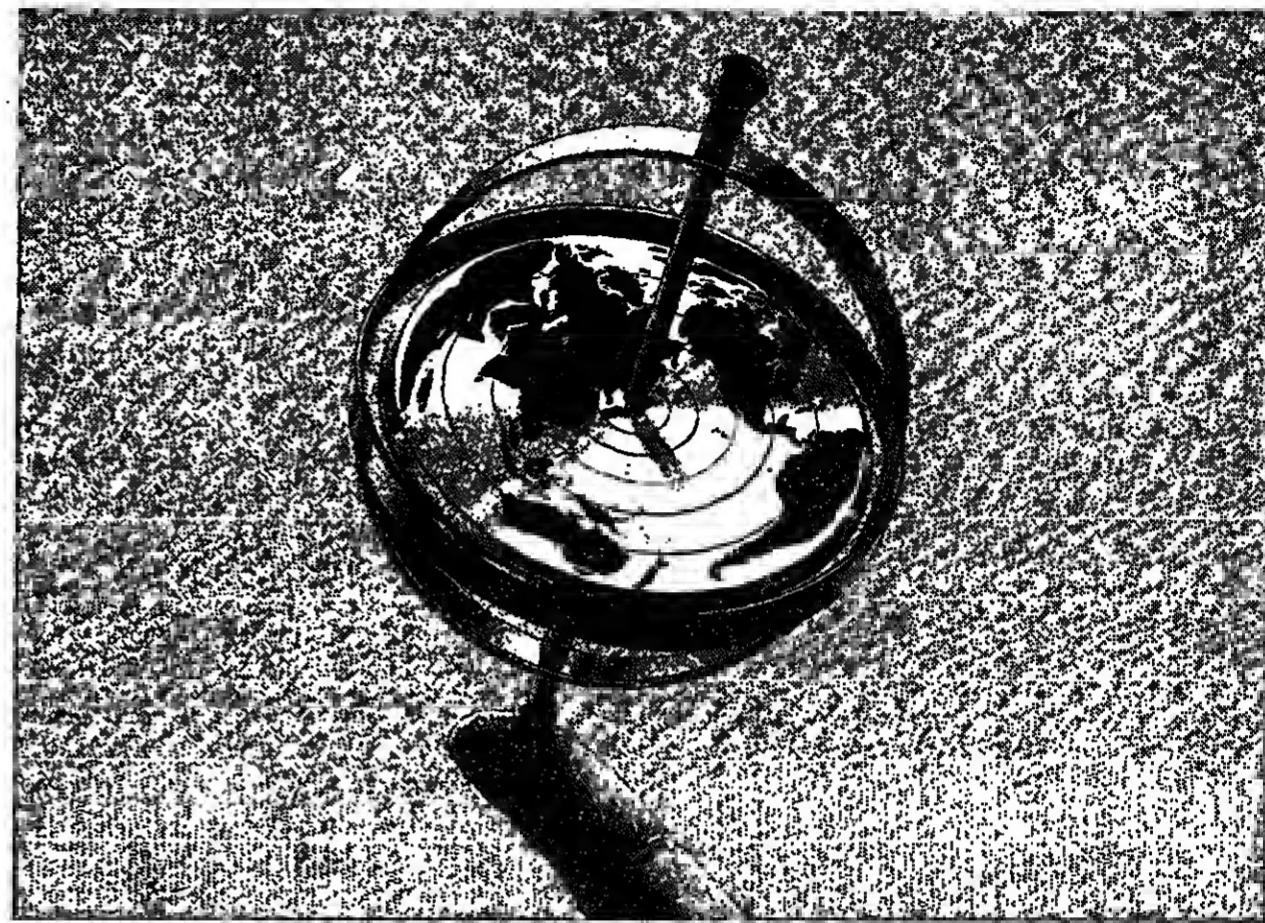
rice field and only half in his greenhouse. The warm air of the day inside the greenhouse is circulated through the rocks by a small fan to form a sort of storage heater."

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Achievement

CONTINUED FROM PREVIOUS PAGE

crease a good deal more to encourage more radical capital spending on energy conservation systems in steelmaking.

Of the \$64bn of capital invested in the industry last year, 522 per cent was related to energy conservation and two-thirds of this spent directly on energy saving.

Energy-oriented investors have meant that Japanese steel is better equipped to ride out the oil crisis and slow international demand and to be ready to meet demand recovery. Greater yield through energy-saving techniques like continuous casting have also meant that the finishing processes such as hot rolling, cold rolling, large beam making, plate, sheet and pipe manufacturing can work at near capacity.

Japan is in the midst of structural change, moving the emphasis away from the heavy industries which led the economy out of the destruction of the war. The accent is moving towards service industries and new applications of electronics. But steelmakers still see a strong role for steel.

Their principal source of encouragement comes from the domestic economy. Shipbuilding is showing signs of moving out of the dumps, but more important is the growing demand for new types of steel.

Steel, for example, accounts for between 75 and 80 per cent of the weight of a car. The challenge to steel manufacturers now is to produce lighter high-strength steels for the motor industry to help produce more

fuel-efficient vehicles. The demand is also there for more corrosion-resistant steels.

The rails for faster trains and the pipes to carry oil at great depths underwater or through Arctic conditions create fresh demands for improved quality.

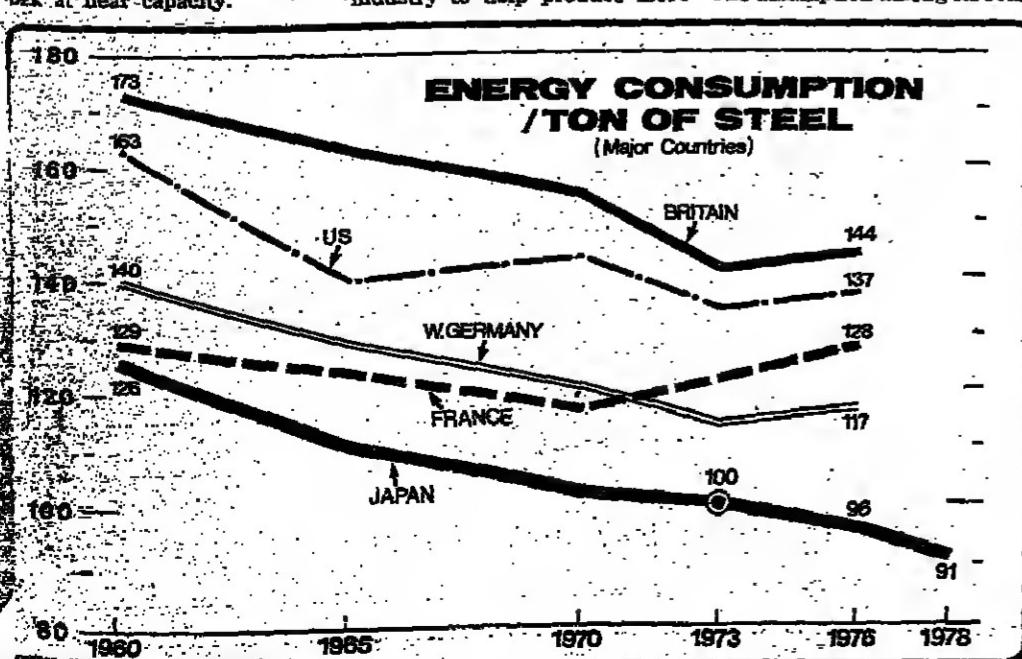
At the same time the Japanese hope that the growing competition in steel from the newly industrialised nations such as South Korea or Taiwan will be restricted to traditional lines and not enter the new high-strength market.

Intrinsic to the survival and continued likely dominance of the Japanese steel industry will be its own self-regulatory qualities.

"Orderly marketing" is a term which grew out of the steel industry to describe the process of consensus between the steel producers as to their production level, markets and prices.

The vehicle for this consensus has been the omnipresent Ministry for International Trade and Industry. The guiding hand to steel during the lean years after the first oil crisis, the Ministry is less influential now about marketing and production levels but issues quarterly forecasts of domestic and export demand and presents industry with an idea for the right level of production.

This "We're-all-in-it-together" approach to the fate of the industry has allowed Japanese steelmakers to fine-tune production to meet recession and eventual demand revival. They have worked out ways to run their plants at below capacity to reduce cost and still make money. They have made huge savings through energy conservation and they have allowed staffing levels to subsist through natural wastage.



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Your international connection

JAPAN X

Major projects are all offshore

PETROCHEMICALS

JOHN FUJII

JAPAN HAS three major offshore petrochemical projects underway but surprisingly enough none of them is designed to provide more supplies for the domestic markets.

The three offshore projects are the multi-billion dollar petrochemical complex the Japanese are building at Bandar Kobineini, Iran; the joint venture with Singapore to build a petrochemical complex on Merbau Island off Singapore; and the huge petrochemical project planned for Al Jubayl in Saudi Arabia.

The Japanese are also interested in a multi-nation petrochemical project at Prudhoe Bay, Alaska.

The eldest overseas project is the Iran complex, which was proposed back in 1968 as part of the industrial plant export programme. Construction started in 1971 and is believed to be 85 per cent complete, but has been untouched for the past 16 months because of the political upheaval in Iran. Since then the Iranian Government has been pushing the Japanese to resume the project but disagreement about feedstock and financing have further delayed the project.

Even if the project is resumed in the near future there is still the problem with the condition of the equipment, which has been lying idle in the desert, and the question of who is to operate it after completion. So even if all remaining issues are ironed out, it is not likely to go onstream, if ever, before three or four years. The Iran Chemical Development Company is currently discussing the issues with the Iranian Government.

Meanwhile the Singapore project seems closer to reality. Ground-breaking ceremonies were held on July 17 for the ethylene centre. All the infrastructure has been completed, so the way seems smooth for the Petrochemical Corporation of Singapore, a 50-50 venture between the Singapore Government and the Japanese Singapore Petrochemical Corporation representing investors.

Japanese Government Overseas Economic Co-operation Fund (OECP) is putting up 30 per cent and a Japanese investment group of 28 companies headed by Sumitomo Chemical Company is putting up 70 per cent of the Japanese half of the \$816m, while the Singapore Government is putting up 47.5 per cent and the Singapore Development Bank 2.5 per cent of Singapore's share.

A Sumitomo Chemical spokesman said that construction is scheduled to be completed by the summer of 1982 and that the complex is to go onstream in the autumn of the same year. Output is expected to be 300,000 tonnes/year of ethylene.

Additional downstream companies are to be established such as the Polyolefin Company (Singapore), with 120,000 tonnes/year of high-density polyethylene and 100,000 tonnes/year of polypropylene; the Philips Petroleum Singapore Chemicals with 80,000 tonnes/year of low-density polyethylene, while another company, not yet established, is to produce 80,000 tonnes/year of ethylene oxide and 100,000 tonnes of ethylene glycol.

The Japanese Government has decided that the Singapore petrochemical complex is to be a national project since 28 companies in addition to the OECP are putting up the funds.

National

The third offshore project is the Saudi Arabia petrochemical complex. This also is a national project and involves 54 Japanese companies headed by the Mitsubishi group.

An agreement was signed recently by the Saudi Petrochemical Development Company, the Japanese investment consortium, and the Saudi Basic Industries Corporation (SABIC) for a feasibility study due for completion in March 1981. Only after the study is completed are the final details to be worked out for the project.

If the study shows that

Al Jubayl project is commercially feasible, construction of an ethylene centre might be started sometime in 1981.

The proposed project is to use gas from the offshore fields near Al Jubayl to produce 450,000 tonnes/year of ethylene, 250,000 tonnes/year of high-density polyethylene, 80,000 tonnes/year of low-density polyethylene and 150,000 tonnes/year of ethylene glycol. Some of the production will be shipped to Japan but the remainder will go to other markets.

This project, initially for a 300,000 tonnes/year ethylene complex, was proposed by Saudi

Oil price aids U.S. sales

THE MOTOR INDUSTRY

AYAKO DOI

THERE HAS never been a time when Japanese cars were so popular all around the world. Japanese car exports in May reached 498,171, the highest level for a single month. In the U.S. one out of five cars sold on the market is now Japanese-made. In Europe, though the number is still small—\$9,702 in the nine EEC countries in May—the Japanese share is increasing rapidly. Sales in the Middle East jumped almost 80 per cent up from the corresponding month last year to 50,000, the majority of them to Saudi Arabia. The gain in South America was even more impressive—140 per cent for the area and 240 per cent in Chile.

Moreover, Japan has beaten the U.S. as the world's biggest car producer in the first six months of this year, producing 5.46m vehicles compared with 4.42m for the U.S. Toyota and Nissan count themselves among the top three car makers of the world along with General Motors, and they are likely to stay there for the whole of 1980. What makes these figures not only impressive but also annoying is the depression in other car-producing countries, notably the U.S. The number of cars sold by the top four American manufacturers plunged 37 per cent from last year to the worst level in 20 years. Production in the third quarter (July-September) is expected to remain at the low level, leaving the already unemployed 320,000 workers still out of work. In Europe, Ford in West Germany experienced a 15 per cent loss in sales in the first four months of this year, while the market share of the Japanese imports doubled from last year to over 10 per cent. In the UK, 14 per cent of the market is taken by the Japanese, and the figure is up to 28 per cent in the Netherlands.

In the eyes of those whose markets are invaded, Japanese quality of the Japanese import far exceeds that of the U.S. Affixed to the report were letters from American consumers praising the high quality of Japanese products. "I have owned four foreign cars over the years. They were gas savers and built like solid tanks . . . you could not find anything wrong with them," wrote one. "The reliability, performance, customer acceptance and overall quality of the Japanese import far exceeds that of the U.S."

CONTINUED ON NEXT PAGE

now 18 petrochemical combines in Japan.

Ethylene production in 1979 was 4.7m tonnes, while in the first four months of 1980 they were 1.62m tonnes. Normal growth in demand is projected at 6 or 7 per cent, about the same as Japan's GNP, or roughly 300,000 tonnes annually.

The only major project for expansion in Japan is the proposed ethylene centre planned by Idemitsu Petrochemical in Chiba. Land is available for the project but it is expected to take several years before construction actually starts because of local anti-pollution opposition.

There is an oversupply of ethylene products by 1.5 months at present, which could build up to 1.8 months' supply if the demand in the second half of the year continues to decline.

According to a Fuji Bank survey, domestic demand for petrochemical products, mainly synthetic resins and synthetic rubber, was favourable in fiscal 1979, thanks largely to the growth in production of electric home appliances and automobiles.

In addition, anticipation of higher prices prompted speculative demand. In the latter half of fiscal 1980, however, the demand for more value-added products in the agricultural and pharmaceutical fields is growing.

Sumitomo said that there was a brisk demand for aniline from the polyurethane industry.

The active demand for BHT (anti-oxidant) from the plastics and

petroleum industries, while

ethylene vinylacetate emulsion

sold well for construction, adhesive and paint applications. Shipments of epoxy resins showed a noticeable increase, especially for cationic electro-deposition use by the automobile industry.

A number of downstream plants are going up. Sumitomo said that a 5,000 tonnes/year recording plant is under construction using a pollution-free hydroperoxide process and is scheduled to go onstream this autumn. A plant for producing l-amino-antraquinone by a mercury-free process is also to be commissioned by the end of this year.

A Japanese research group, subsidised by government funds, is expected to start carbon monoxide development this fall. Research will centre on ethylene glycol, as a raw material for polyester fibres, ethanol, acetic acid and hydrocarbons.

The purpose is to obtain processing know-how for production of ethylene glycol and other chemical products from carbon monoxide by fiscal 1986. At an estimated cost of \$65m, the project is designed to reduce dependence of the chemical industry on petroleum and derivatives for chemicals.

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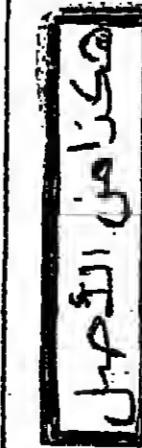
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JAPAN XI

Business boosted by oil purchasing

TRADING COMPANIES

RICHARD HANSON

If ONE adds up all the oil handled by Japan's big general trading companies, which transact more than half of all Japan's trade, the amount is only enough to place them in size somewhere between Gulf and Mobil among the oil majors. The trading companies themselves are quick to emphasise that their role in the energy trade is very different from that of the majors.

There is no doubt, however, that the big traders have emerged from the latest oil crisis as Japan's most important link with oil supplies. This fact alone has meant a tremendous boost in their business over the past year.

The energy crisis has in effect tended to accelerate a shift in the functions that the general traders perform within the Japanese economy (and more than ever before in trade not involving Japan directly). The most important post-war role of the trading company was to provide a window to the world for Japanese companies lacking the individual capacity to sell products in far-flung places, the trading companies, for a small fee, provided financing and important information networks.

Speculate

Their growth was spectacular throughout the 1960s and early 1970s, but as more and more of the successful Japanese companies, however, began to export on their own it became popular to speculate over whether the trading companies might eventually shrivel up and disappear.

That kind of speculation now seems to be part of a very dim past. The trading companies have discovered that size and organisational ability can be very useful in a world which increasingly depends on huge development projects to open up new supplies of energy and raw materials. The traders act as the hub of a wheel in these projects. They gather the "spokes" needed to get the job done, and are very skilled at finding markets for whatever is finally produced.

The fastest growing areas of trading company business are in fact in energy (the bulk of which involves importing oil to

Japan), and the handling of trade outside of Japan (with iron and grain the two most important products). The shift into oil business has been spectacular over the past year.

What has happened is simply that Japan found it could no longer be assured of supplies through the majors. These companies had provided Japan with virtually all its oil in the 1950s and between 80-90 per cent at the time of the first oil crisis.

The disruption of world oil supplies caused by the revolution in Iran, however, forced the majors (in most cases) progressively to turn off the supply of oil to all but their own affiliates in Japan. The result initially was a mad scramble by the trading companies (and local oil companies) to buy oil elsewhere—i.e., either on the spot market or through longer term direct deals with the oil producing countries.

Despite problems with their contracts for Iranian oil the traders have succeeded handsomely in finding oil for Japan. At present the direct deals provide more than 40 per cent of Japan's oil imports (compared with only 20 per cent two years ago, and the 45 per cent share still imported from the majors). Since mid-April the amount has been cut by a pricing dispute (tied indirectly to the U.S. sanctions issue) with Iran. The companies hope to resume lifting of Iranian oil later this year. There are hints that the amount will be cut to less than half the \$30,000 b/d of the original contracts signed in April 1979.

The sudden shift of oil trade to the trading houses was reflected clearly in the business results reported for the accounting year which ended in March. The top six traders each reported turnover was up more than 30 per cent over the previous year. Energy and chemical divisions showed the most spectacular jumps (up more than 70 per cent). Oil and gas sales have doubled in

importance for the companies: (as in the case of natural gas, coal and other forms of energy) actually requires co-operation with the Government, which in some cases negotiates directly with producing countries for long-term contracts. In contracts negotiated by the companies themselves, such as with Iran, the Government keeps a sharp eye on the terms and conditions.

Finally, the trading companies have found themselves at the centre of development projects in the "national interest" in countries which supply resources to Japan. They are not, however, very enthusiastic these days, particularly when the projects are in the Middle East. The revolution in Iran and the troubles it has brought for Mitsubishi's huge joint venture petrochemical plant at Bandar Khomenei, have made the companies nervous about other large investments in the Arab world.

Mitsui last year went so far as to bring the Japanese Government into its joint venture with Iran as part of its efforts to keep the project alive. Continuing the \$3.5bn project is now at least indirectly tied to keeping Iran as a source of oil. (Mitsui originally agreed to build the complex as condition for winning an oil exploration concession in the early 1970s. The concession proved worthless.)

The next major project that the Japanese Government has promised to co-operate on is a \$2bn petrochemical complex in Saudi Arabia, to be built by the Mitsubishi group. Progress has been very slow, having just reached the feasibility study stage after being first proposed in 1976. But it appears that Mitsubishi will have to go along with it for no other reason than doing so might anger the Saudis (who provide Japan with 30 per cent of its oil). The trading companies (and Japan generally) cannot afford to remain successful.

TURNOVER OF TOP SIX TRADING COMPANIES (Year to March 31, 1980—Y bn)

	Total	% increase on year	Energy/ chemical related	% increase on year	Third Country	% increase on year
Mitsubishi Corporation	12,308	36.6	3,922	76.1	765	56.2
Mitsui & Co.	11,208	34.1	2,820	73.6	1,110	68.1
C. Itoh & Co.	8,862	35.1	2,679	72.4	1,127	49.4
Marubeni	3,388	31.8	1,720	70.4	1,372	62.1
Sumitomo	7,600	29.9	1,934	74.5	524	33.1
Nissho-Iwai	5,769	33.1	1,429	128.1	639	49.9

Oil price

CONTINUED FROM PREVIOUS PAGE



Automatic welders on the assembly line: the motor industry is proud of the quality of its products

version," said a rental-car agent. Another outraged consumer asked "Has anyone ever said 'Don't buy a Japanese or German auto' made on Monday because the workers come in too hung over to work right?" The foreign workers take pride in their product!"

The report also mentioned an opinion survey of motor engineers conducted by an American trade magazine. Almost half of the engineers interviewed responded that the Japanese cars are the best in quality. They rated the Japanese products at the top not because of their superior technology, but on account of their better craftsmanship and better attention to fine detail both in design and on the assembly line.

The confidence of the Japanese makers in their products may explain their seeming composure in responding to the demands from auto manufacturers and labour abroad for measures to restrict the Japanese imports. Although they do not officially talk about collaborating to restrain exports, which would violate the Japanese anti-trust law, observers agree that they are ready to make some sort of concession.

To support his remark, the Nissan Sales Company chairman, Mr. Seizi Kato, recently suggested that the company would accept bilateral trade regulations if such a thing could successfully be worked out between the U.S. and Japanese Governments. "I don't foresee the imposition of import quotas, which would violate the Japanese anti-trust law," he says. "The most likely scenario," he continues, "seems to be an orderly market agreement, which eventually may force us to establish assembly plants in the U.S.—just like the colour TV industry."

At the base of such tolerance is an assumption that the Japanese cars will remain popular in the U.S. market no matter how entry is restricted, until the American small-car production comes in full swing in the mid-1980s. "The Americans are just starting with fuel economy, while we have been concentrating on it since before the oil crunch," says Nissan's Mr. Arai. "It takes time to find the ideal balance between smallness of space and comfort, lightness of materials and solidity, and cleanliness of exhaust and fuel products."

What then will happen to the

when it should have been done," he argues. "But unlike the steel industry, which was hit by the Japanese to the point where it can no longer stand on its feet, the auto industry still has a reserve of strength."

While the Japanese makers are proud of their quality, they do not underestimate the technological potential of their American counterparts.

With their prices already higher than the U.S. products, the Japanese automakers will need something more than just superior workmanship to beat the Americans, especially if they are going to use American labour as well. They have tried front-wheel drive, lighter materials and a wider application of electronic devices. They are working on other new technologies such as radar cars or television camera automatic driving.

But none is striking enough to be called innovative. The electric car may change the whole picture of the industry in the 1980s, but until then, the Japanese makers will have to defend themselves with the shield of "quality."

"What we should aim to do in the 1980s is to defend our present position," says Nissan's Mr. Arai. He, like other industry spokesmen, does not expect an increase in the U.S. market share above the present level. As for Europe, "We may go up to 10 per cent of the EEC market, but no more," he predicts. The 1980s for the Japanese auto industry may not be as smooth as the past decade. After all, once one reaches the top of the hill, one can only stay there or go down.

However, one should always look for new possibilities, and there is at least one, according to an American magazine—the super-fuel-efficient minicars. Moreover, they have already been made and sold all over Japan for the last few decades. Manufactured by Datsun, Suzuki and Fuji (Subaru), these Japanese versions of the Fiat 126 weigh less than 1,500 pounds and do more than 45 miles per gallon. Their top overseas markets are Chile (7,700 sold last year), Greece (1,109) and the Netherlands (472), but they cannot be sold in the U.S. because of safety requirements. Asked about the possibility of marketing minicars in the U.S., one company executive laughed and said, "We have never really thought about it."

Maintaining A Balance in World Trade

By the late 1980s, the traditional pattern of the oil trade will be dramatically altered as mammoth oil refineries now being planned in oil-producing countries become operational.

Having these huge new refineries, the role of oil-producing countries will change from exporters of mainly crude oil to worldwide exporters of finished petroleum products as well. Global distribution of oil products will then enter a critically complex and diversified era.

Maintaining a stable world supply-demand balance will require marketing skills and capital resources on a vast scale.

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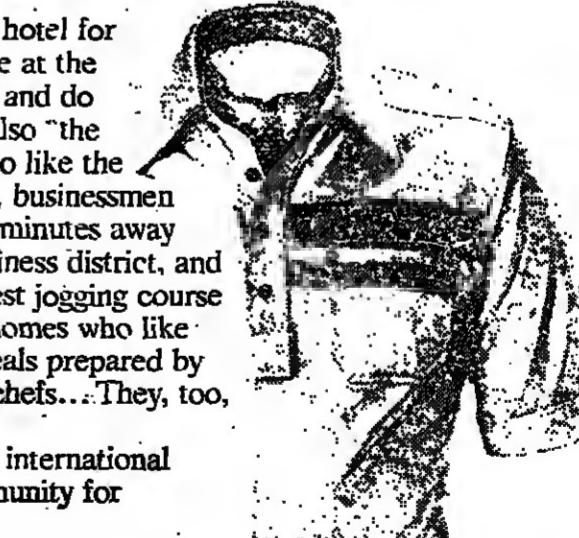
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AUSTRALIA

HAMISH McDONALD,
TOKYO CORRESPONDENT,
SYDNEY MORNING HERALD

JAPAN'S SWITCH from oil to alternative fuels is triggering off big developments in mining, industry and trade for Australia, and seems certain to tighten the economic integration of the two Western Pacific nations.

To an extent that rather alarms Japanese business circles, availability of supply and transport economics dictate a heavy reliance on Australia for new energy imports, particularly in steaming coal.

For Australia, the Japanese buyers still remain the key customers who sign the bankable contracts that get big new projects started. This is despite diversification of the Australian resources trade in recent years, the result in large part of the emergence of new industries in South Korea, Taiwan, China and elsewhere in the Pacific.

The new Japanese thrust into Australia is taking the form of investment and orders for resources to be shipped to Japan, and in the relocation of energy-intensive industry such as aluminium.

The most spectacular single development will be the liquefied natural gas project (LNG) on the North-West Shelf, off-



The Blair Athol open cut coalmine near Clermont in Central Queensland. The mine's main seam has a maximum thickness of 110 feet.

shore from Dampier in Western Australia's Pilbara region.

Woodside Petroleum Pty. and its associates are now hammering out the fine detail of a contract with five Japanese power companies and three gas utilities for supply of over 6m tonnes a year of LNG from 1986.

The North-West Shelf partners were confident enough earlier this year to begin let-

ting contracts for production facilities, despite some ruffled feathers among intending Japanese LNG purchasers about the Australian decision to strip petroleum gas from the product for separate sale.

The Industrial Bank of Japan was one of eight foreign banks to agree in June this year to a U.S.\$1.3bn consortium loan for the first part of the development, which is expected to cost about \$4.5bn all up.

The Australian Minister for Trade and Resources, Mr. Douglas Anthony, has put earnings from the project's LNG, condensate, and liquified petroleum gas at over \$1.5bn a year (at November, 1979, prices) either from direct exports or from indirect import replacement.

Over a longer term Australian steaming coal exports to Japan will continue a series of leaps, forming a large part of the big expansion of Australian coal exports forecast in May this year by the International Energy Agency's World Coal Study.

This study saw Australia and the U.S. becoming the principal exporters of coal by the end of the century. Australian exports would grow from 38m tonnes of coal equivalent in 1978 to some 160m by the year 2000.

Coal is now the biggest item in Australia's export list, earning about U.S.\$1.66bn in 1978, 1979, or 10.7 per cent of total exports. Of this about 71 per cent of some \$1.2bn went to Japan, mostly for steel production.

Japan is still formulating estimates of future steaming coal demand, but some rough figures are being used in Tokyo that give an idea of the way the trade could move.

The energy use targets issued by the Ministry of International Trade and Industry (MITI) last August give steaming coal import levels of 32m tonnes in 1983 and 53.5m in 1990, compared with last year's imports of about 1.45m.

It is still highly uncertain whether these targets will be met. The cement industry has led the initial push into steaming coal, and may take imports up to 5m tonnes or so this year but after the conversion from oil is completed in a year or two will not provide much growth beyond that.

Reluctantly

The power utilities are moving rather more reluctantly into coal, a fuel they had rather hoped was behind them. They point out that coal-fired power stations occupy about three times as much land as oil-fired plants, require new ports and railways and handling sites, and present a pollution risk. In Japan, constraints on space make these disadvantages sharper than elsewhere.

The IEA meeting in May and the recent Venice summit have placed greater urgency on coal as an intermediate fuel between oil and nuclear power. In response, MITI has been goading the power companies into faster action, and has begun studying which of the country's 245 oil-fired power stations could be converted—in some cases re-converted—to coal.

The tentative breakdown of future steaming coal imports, now floating in the utilities and other consumer industries, gives Australia the largest share, with about 40 per cent with Canada, the U.S., China and South Africa supplying the rest. This would put Australian exports to Japan at some 21m tonnes a year by 1990.

Calculations by the Australian coal industry give a development cost of between A\$90 and A\$135 per annual tonne for a large open-cut mine and infrastructure. For Japan's requirements alone this means some A\$2bn in investment.

Existing railways and ports along the east coast of Australia, where most of the new coal deposits are, provide little slack for expanded coal exports.

The potential Japanese consumers are running a race to realise that they will have to pay for this, one way or the other. It scares them, or at least they pretend it does.

The Australian miners say that current steaming coal prices, which have shot up by about A\$12 to around A\$35 a

tonne over the last year, are pany, which will take the major role for the industry in investments and purchases abroad.

Uranium is a muted subject. In trade discussions now, Japan has been taking uranium for some time from the Mary Kathleen Uranium mine controlled by Conzinc Riotinto Australia, but is not in a desperate position for supplies.

While Japanese interests, particularly the big trading companies and their mining affiliates, are taking up minority equity in Australian companies (and to their embarrassment have figured in recent takeover battles) in order to secure supplies, their Australian partners also look for provision of loan funds as well as long-term contracts.

Uneasiness still exists on both sides. The Australians worry about the conflict of interest inherent in end-users gaining equity and about the highly organised purchasing front Japan is assembling. The Japanese voice fears about possible intervention by Canberra to co-ordinate marketing—and above all about Australia's lamentable strike record.

On the Japanese side the steam coal trade with Australia is being handled at the highest level of business. In April the Federation of Economic Organisation (Keidanren) sent a mission to Australia under its then chairman, Mr. Toshiro Doko. In July it established an "Australian Coal Council," on which Mr. Doko and his successor, Mr. Y. Inayama, (who is also chairman of Nippon Steel Corporation) will serve.

The power utilities have set up their own joint venture, Japan Coal Development Com-

are moving in on possible brown coal liquefaction schemes.

The "Komikini" group comprising Kobe Steel, Mitsubishi Chemical and Nissho-Iwai will shortly begin a study with the Victorian State government on liquefaction of the huge brown coal reserves about 150 km East of Melbourne. The Mitsui group has been testing Victorian coal at a plant in Japan and has similar plans.

The aluminium industry is so far the chief pointer towards relocation of energy-intensive activities from Japan to Australia.

While the Japanese industry, under "administrative guidance" from MITI, is cutting capacity from 1.1m tonnes a year to about 1.1m tonnes a year from commencement of production in 1982.

Discoveries

The Premiers of Western Australia and South Australia have been pushing the merits of the uranium discoveries at Yeelirrie and Roxby Downs in their respective States; but seem far from gaining contracts in Tokyo.

The insistence of the Japanese bureaucracy on Japan developing its own uranium enrichment programme is also taking the steam out of a joint study on co-operation on an Australian enrichment plant, although Australia has other potential partners in Europe.

Japan is rather more interested in two unconventional energy resources in Australia. A group of Japanese oil companies and the Industrial Bank of Japan missed out to Exxon in the bidding for partnership in Queensland's oil shale project at Rundle, but other groups

A group of Japanese companies headed by Sumitomo Light Metal will hold 50 per cent equity in the Comico smelter at Gladstone, Queensland, due to start up in 1982 at a cost of more than \$600m. Mitsui will join the comparable Alumina venture at Farley, New South Wales, while Kobe Steel is the leader of a Japanese group in the Worsley alumina refinery in Western Australia. Japan was not the leader in this trend, it must be noted, but for many Australian industry promoters such as the West Australian premier, Sir Charles Court, it is the sign of how things will be in the future.

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Oil in exchange for steel finance

MEXICO

AYAKO DOI

At the end of late Prime Minister Masayoshi Ohira's visit to Mexico last May, big headlines ran across the front pages of Japanese newspapers reporting Mr. Ohira's failure to secure a firm undertaking from Mexican President Jose Lopez Portillo to triple the export of petroleum to Japan. The Japanese Prime Minister landed in the Mexican capital with the rather naive optimism that the Mexicans would nod at the Japanese request in exchange for the yen credit which he was prepared to offer to finance Mexico's massive steel-manufacturing projects.

The Japanese were stunned when the two leaders came out of their two-day meetings with a joint communiqué which stated that while Mr. Ohira expressed his "desire and expectation" to get more oil, Sr. Portillo only promised his "political decision and good will" in considering the matter.

The issue was half-forgotten after Mr. Ohira's return home, buried beneath the news of the stunning passage of a no-confidence bill in the Diet, the unprecedented combined election to the Upper and Lower Houses which followed, and, most dramatic of all, Mr. Ohira's sudden death. The Government was obviously not in a position to make new proposals under such conditions.

Mexico's proven oil and gas reserves were a little over 6bn barrels in 1976. Extensive exploration since then has increased the amount to 500bn today, according to Pemex, the state-owned oil company. The country is now the sixth oil-rich nation in the world, exporting to the U.S., Brazil, Spain and France among others. Moreover, potential reserves

are said to exceed 200bn barrels, a level rivaled only by Saudi Arabia. Unlike Saudi Arabia, Mexico is not a member of OPEC, which makes it even more attractive as a supplier of the precious resource. However, despite the tempestuous use of oil as a means to improve its deteriorating trade balance, President Lopez Portillo's Government has pledged to ban the oil production to 2.5m barrels per day (b/d), with an allowance of 200,000 barrels upward, until his term expires in 1982. Only half of that amount will be exported in order to minimize inflation caused by a sudden influx of petro-dollars and, more than half is said to have already been committed to the U.S.

Mexico's rich oil supply suddenly became a focus of interest for Japan when shipments from Iran were cut off early last year. Japan had depended for 17 per cent of its oil supply—about 500,000 barrels per day—on Iran, and was anxious to find an alternative source to secure its energy requirements.

Shipments

Last summer the Pemex director-general, Sr. Jorg Diez Serrano, agreed with visiting Japanese International Trade Minister Mr. Masumi Esaki that the company would sell 75,000 to 100,000 barrels per day of crude oil to Japan for the next 10 years. Shipment was to begin last January at a level of 25,000 b/d and the amount was gradually to increase to 100,000 barrels by the end of this year. Owing to the lack of preparation, however, Japan received no Mexican oil in the first quarter of 1980. The first shipment of 92,000 barrels, intended for April, arrived in Kagoshima on June 28 after the 16,500-mile voyage from the Mexican Gulf port of Pajaritos around the Cape of Good Hope and the Malacca Strait.

Two more ships have since left Mexico, each carrying 75,000 barrels for May and June respectively. They are expected to arrive in Japan in

August.

To avoid confusion and competition among Japanese importers, 24 refiners and distributors, nine trading firms and three financial institutions in Japan formed, with the Ministry of International Trade and Industry's advice, a new company called Mexican Petroleum Import Company last autumn. The new company will act as an importer of all crude oil arriving from Mexico, as well as a distributor among the 24 shareholding oil companies.

When the Japanese recovered from their initial shock at Mexico's reluctance to sell more oil, there came a new interpretation of the Ohira-Portillo communiqué—that the Mexicans in fact were saying a conditional "yes." The condition obviously is Japan's larger participation in Mexico's three steel projects; an expansion of the Sicasita steel works from the annual capacity of 1,850,000 tons to 2,800,000 tons; the construction of a casting and forging plant with an annual output of 50,000 tons; and another large-diameter steel pipe mill with 150,000-ton annual capacity.

Negotiations for these projects began more than two years ago, before the question of oil exports came up, between the Mexican government's steel corporation and three Japanese steel manufacturers. Nippon Steel offered to provide technical assistance for the Sicasita works. Kobe Steel and Sumitomo Metals suggested joint ventures for the other two projects respectively.

As the world oil supply situation worsened last year, the projects came to be seen as a fitting bargaining tool for Mexico, which wanted financial assistance from the Tokyo Government as well as the private investments.

Although both sides were agreed in principle, a wide gap existed between the sums they had in their minds. Mexican Industry Development Minister Jose Andres de Oteyza, on his visit to Tokyo in April,

suggested Japanese credits of \$100m (about \$455m), while Tokyo was talking about something in the vicinity of \$2bn (\$1bn). The Japanese figure was later raised to \$400m before Mr. Ohira's visit to Mexico, but that still was not enough for his host.

With the growing trend toward export of complete industrial plants, there is much demand for heavy lifters to transport huge plant equipment to oil-producing and developing countries.

NYK's fleet of seven heavy lifters with a capacity of more than 100 tons each, is well-qualified to meet this growing need.

Predicted

"The fact that there are many speculations on the amount of Japanese financial aids," said Mexican Ambassador Francisco Alejo Lopez earlier this month in Tokyo, "shows a keen interest in the matter by the Japanese Government and industry." He predicted that an agreement would be reached within the next couple of months both on the steel projects and the boosting of oil exports. Japanese observers optimistically predict that Mexico will eventually come up with a positive answer to accommodate the Japanese request.

Oil import from Mexico will considerably be speeded up next year when the port of Salina Cruz on the Pacific coast is expected to begin operations. Mexico then will be a fast and stable supplier of oil to Japan. If Tokyo succeeds in getting 300,000 b/d from the oil-rich country—that is only 6 per cent of the national consumption—will it want more as the next step?

"That is not our intention," says an official at the Petroleum Association of Japan. "We want to diversify our sources, not to depend too heavily on one country."

Strong case for wider commercial links

SAUDI ARABIA

RICHARD HANSON

JAPAN HAS recognised its serious error of neglecting economic and diplomatic ties with the Arab world before the 1973 oil crisis. This was particularly true in the case of Saudi Arabia, which after the oil crisis replaced Iran as Japan's single largest supplier of crude oil. Unfortunately, the process of building up the relationship has proved agonizingly slow.

The history of Japan's ties with Saudi Arabia can be divided into two phases. Initially, when Japan began to import crude oil again in the early 1950s it was completely dependent on the Western majors for handling oil supplies from the Middle East. This simple cash-on-the-barrel attitude was reflected in an almost total lack of official interest in formulating a coherent diplomatic policy towards the Arab world.

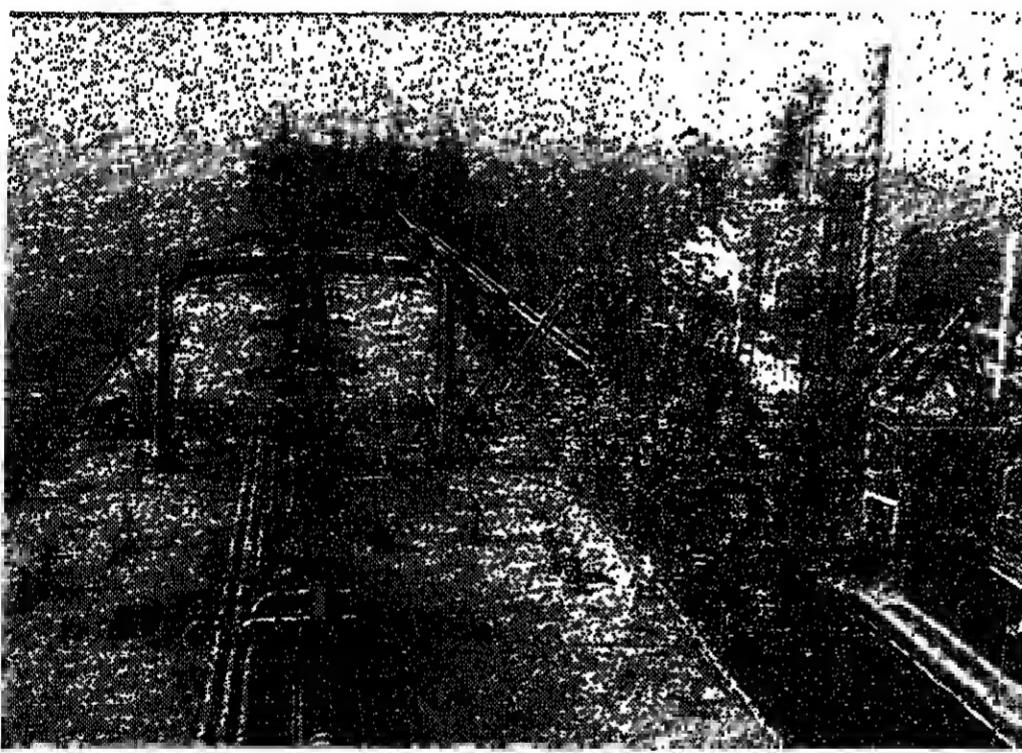
Indeed strong opposition arose within the Japanese Government in the mid-1950s when a small group of influential Japanese businessmen proposed that a Japanese company should try to win oil exploration concessions in Saudi Arabia in competition with the West. They were successful, but even today the company, Arabian Oil (whose chairman is profiled elsewhere in this survey), is a relatively tiny source of oil for Japan. Other Japanese efforts to produce oil in the Middle East have been even less significant.

Scrambling

This first phase ended abruptly in 1973 when tensions in the Middle East (and the emergence of OPEC) left Japan scrambling for assurances of oil supplies. There was a definite shift from even-handed policies towards Israel and the Arabs in favour of the oil producers, and envoys from Tokyo hastily tried to woo the Saudis with promises of economic co-operation.

The first talks on closer relationships with Saudi Arabia had languished since a 1971 official visit to Japan by King Faisal. When oil prices soared in December, 1973, though, the then Prime Minister, Mr. Mikio, sent a high-level representative to propose a co-operative agreement. It required another 15 months before it was actually inked.

The agreement called for ministerial level meetings (there have been only two



Ras Tanura—Saudi Arabia's main oil terminal. Tankers dock at a platform out at sea

such events since the 1975 signing). The two sides also agreed that large development projects would be in the form of joint ventures, as was the case in Iran.

The results of the accord so far have been disappointing to both sides. In 1976 Japan proposed to co-operate on two major projects—a petrochemical complex and an oxidised steel project. The latter was quickly scaled down to a planned size from 3.5m tonnes a year to 1.5m tonnes on the Saudi side (which included Nippon Steel, four trading companies and co-operation from a U.S. group).

Interest was diminished by a downturn in the world steel market and higher construction costs. Saudi Arabia finally turned to a West German company for the project.

With seemingly no way out, the two sides in April this year launched a feasibility study, the results of which should be known next year.

Negligible

Other efforts on the official level appear to have produced negligible results. In a typical recent year, under official auspices, only 115 Japanese advisers travelled to Saudi Arabia while 103 Saudis came to Japan for technical training.

It would be extremely difficult, however, for the Japanese to neglect its commitment to building the \$2bn "showpiece" petrochemical complex that Saudi Arabia wants as a joint venture with PetroChina, its state oil company.

The heart of the proposal is a 450,000 tonnes annum capacity ethylene plant in Jubail. The Mitsubishi group will represent the Japanese side, and the Japanese Government has already promised it will participate, giving it the look of a "national" project.

Mitsubishi began having second thoughts on the project because of higher costs and the lack of assurance of a market for a large new source of petro-

chemical products. To further complicate the situation, Mitsubishi has been horrified by the events in nearby Iran which have jeopardised the future of the multi-billion dollar Bandar Khomeini petrochemical project being built by Japan's second largest trading company group, Mitsui and Company.

With seemingly no way out, the two sides in April this year launched a feasibility study, the results of which should be known next year.

Jumped 43.4 per cent to \$12bn. "Pro-Saudi" people in the business community are warning seriously, however, that Japan must rethink its entire approach to doing business with the Saudis, both at the private and governmental level.

The purely commercial approach to sales taken by most businessmen could eventually produce an anti-Japanese backlash, they warn.

The main criticism of the Government's approach so far is that officials have taken the passive position of asking the Saudis what they need and then promising to provide it, this has not worked so far according to one observer with long-standing ties to the Saudi Government,

because they Saudis themselves need much more basic assistance in defining just what is required at their present stage of development this year.

At the private level Japan has fared much better in selling goods and equipment to Saudi Arabia. In 1978 Japan ranked second after the U.S. and well ahead of West Germany and the UK. Japanese heavy equipment makers have been particularly strong in exporting desalination, cement and other plants, while the motor industry and other lighter manufacturers have moved in strongly to meet Saudi demand.

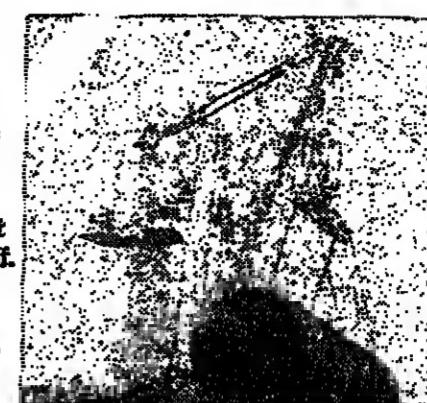
The incentive to cut the large trade deficit Japan runs as a result of soaring oil prices is strong. Last year Japanese exports to Saudi increased by 18 per cent to \$3.8bn but oil imports from Saudi Arabia for about 30 per cent of its oil, there really is no choice.

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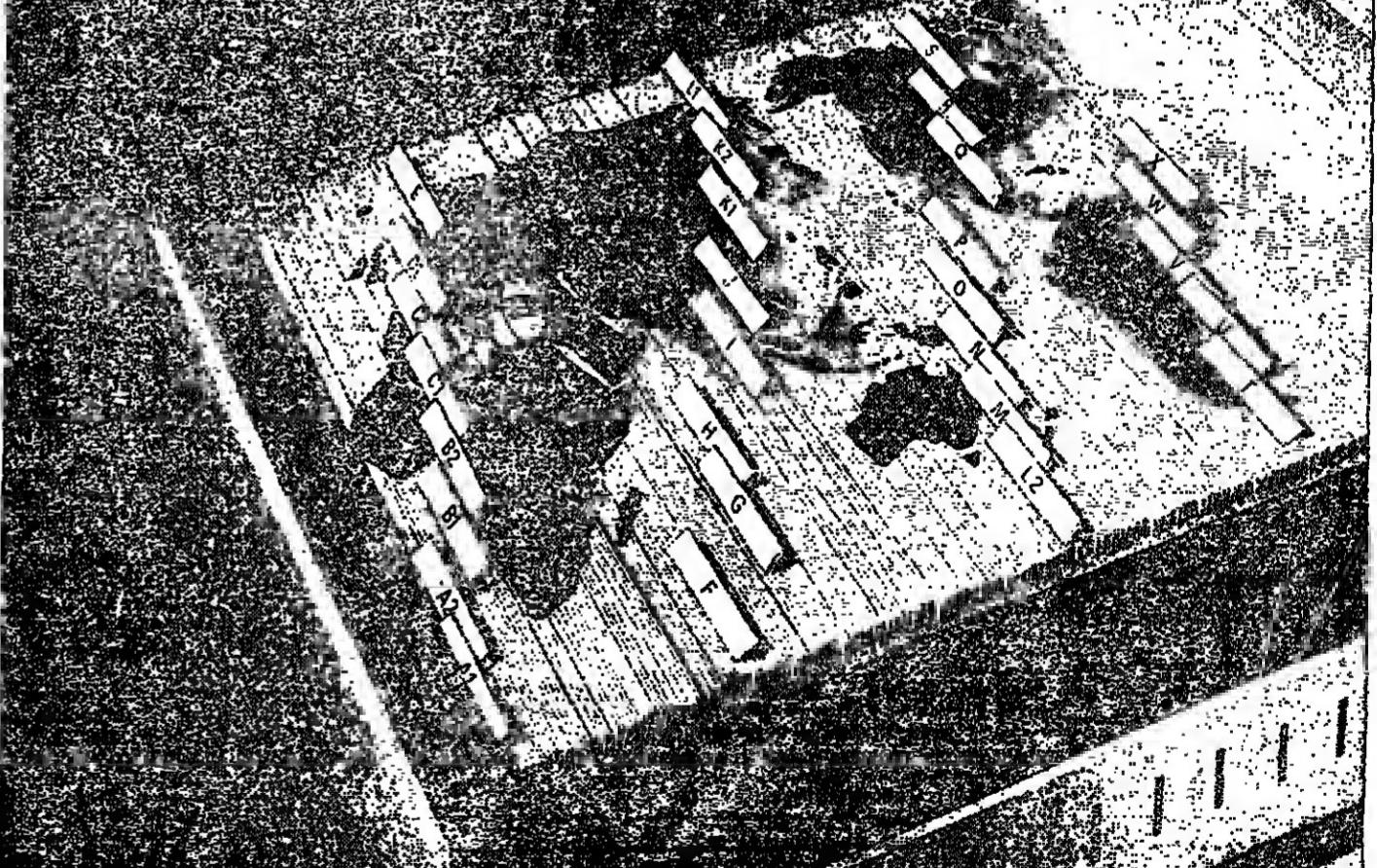
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JAPAN XIV

Peking supplies below hopes

CHINA

CHARLES SMITH

DIVERSIFICATION OF Japan's energy sources has been a prime object of Government policy ever since the first oil crisis exposed the danger of Japan's heavy dependence on oil from the Gulf. Supply from China is one of the principal elements of this diversification policy, but one which, increasingly, has come to disappoint early expectations.

Currently Japan draws about 3 per cent of its oil and about 2.4 per cent of its coal from China. Dependence on Chinese oil may rise to 5 per cent before the end of the 1980s, but Japanese officials stress that a bigger figure is neither likely, nor even desirable, so far as Japan is concerned. The vision of a massive economic partnership based on China's natural resources and Japan's industrial might would thus seem to have been exaggerated.

One reason why the vision has not come true is that China has failed to increase its oil production as rapidly as was expected some years ago. Output from the major onshore fields grew by 2 per cent in 1979 to 108.15m

tonnes (from 104.05m) whereas the Chinese Gross National Product recorded a nominal growth of around 7 per cent and a real growth which may have only been marginally less. China's ability to produce surplus oil for export would thus seem to have declined last year and Japanese officials expect it to continue to decline.

"There is a real question whether China will remain an oil exporter," said one Foreign Ministry official.

Honoured

Despite what would appear to be a dwindling availability China has so far honoured its obligations under the eight-year private level trade agreement signed with Japan in February, 1978. This called for an increase in shipments from 7m tonnes in 1978 to 7.6m tonnes last year and to 8m tonnes this year. China has promised to ship the contracted tonnage this year and may well succeed in stepping up shipments further to the 9.5m tonnes laid down for 1981. Beyond that, however, the outlook is doubtful. The Chinese premier, Mr. Hua Guo Teng, on a visit to Tokyo in May, hinted that there might be difficulty in reaching the 15m tonnes set for 1982.

China's warning that it may not be able to fulfil its oil supply obligations in 1982 represents an ironic shift from the situa-

tion during negotiations on the two-year trade agreement. At that time it was Japan that had doubts about China's ability to absorb Chinese oil and China that "insisted" on the insertion of relatively high figures into the agreement. China's anxiety to maximise its oil sales to Japan arose from its desire to import large quantities of Japanese plant and equipment and to offset the cost of these by oil exports.

The question of whether China can or cannot fulfil its 1982 export obligations will depend partly on the trend of production at existing onshore fields (where water is already being injected to produce a secondary oil flow) and partly on China's domestic demand.

Beyond 1982 the important question will be whether and on what scale China can develop new oilfields. Japan will be taking an active part in these developments through its partnership in a joint venture in the south-western portion of the Bay of Bohai.

The venture has taken time to get off the ground but an operating company has been established and exploratory drilling should get under way this summer. The project is being financed in part by drawings from a low interest rate ¥420bn loan extended last year by Japan's Export Import Bank to assist China in resource development.

The Bohai Bay project is not the only oil development one on which China is embarking with foreign assistance. Western oil companies have signed agreements to conduct seismic surveys in the Huan Hau and South China Seas areas, and China has (very recently) hinted that it may invite Western assistance in onshore drilling. Japan will not, however, seek a major role in any projects other than Bohai, although it may act as subcontractor in some other ventures.

Ambitions

Development of coal imports from China is regarded by Japanese Government officials as being as important a step as oil—if not more so—although here too early expectations are now regarded as over-ambitious. Imports rose from 772,000 tonnes in 1978 to 1,407m tonnes last year (both steam and coking). They should hit 3.5m to 3.7m tonnes in 1982 and were at one time expected to reach 10m tonnes by 1985; this last figure is now regarded as a "very ambitious".

What is certain is that Japan will assist China in the development of three high-grade coalfields: Yanzhou Baodian (with an estimated output of 3m tonnes of steam coal per year), Yanzhou Jiangzhuang (1.5m tonnes of steam coal) and

Gujiao Xigu (3m tonnes of coking coal). These developments will be financed from the same ¥420bn line of credit as the Bohai Bay oil project, with the coal projects taking slightly less than half the total.

China is officially responsible for providing the infrastructure needed to back up the new coal-mining ventures but will be receiving some Japanese help in this area also. This will come in the form of a low interest rate ¥50bn loan to be extended by the Overseas Economic Co-operation Fund (a Government agency specialising in soft loans to developing countries).

China initially rejected all Japanese offers of "aid-type" financing but began to show signs of shifting its position when the late Prime Minister Masayoshi Ohira visited China in December last year. In April a memorandum of understanding was signed on the OECF loan, with China providing a list of projects to be financed by it. At least two of these (a port and a railway) are thought to be related to the thought of the Chinese-financed coal-mining ventures.

The scope for developing Chinese coal resources for the Japanese market could be enhanced in future by the use of coal liquefaction. If this happens coal, rather than oil, could eventually emerge as the main resource underpinning Japan's trade with China.

Abundance on northern doorstep

SIBERIA

MARK MEROOTH

WITHIN EASY reach of Japan are coal fields, potentially vast quantities of natural gas, and maybe oil. But because these resources are in Siberia, Japanese government officials count them out when calculating their future energy needs.

"We do not have an energy orientation towards the Soviet Union," was the way one senior Japanese diplomat put it. The production of coal and natural gas in south Yakutia or the exploration for oil off Sakhalin Island to the north of Japan are all in various stages of exploration, negotiation or development. The capital investment is there, the industrial interest in Japan is there but so are the political worries.

The town of Neryungri has grown up around the excavation and a spur of the main Soviet BAM railway line was constructed to carry equipment to and coal from the site.

Under an agreement signed in 1974 the Soviet received a \$450m credit from Japan to buy mining equipment. The Japanese were to receive 100m tonnes of coking coal over 20 years from 1979—most of it from Neryungri when it comes into full production in 1983.

Last year a further \$40m was agreed for the construction of

Japan's desire to help out with China's modernisation programme and the uncertain state of East-West relations has led to a considerable amount of foot-shuffling on both sides in expanding the contacts between these two obviously complementary economic areas.

The most tangible of the energy-related projects is the development of the huge coal mountain in south Yakutia with reserves estimated at 450m tonnes.

The town of Neryungri has grown up around the excavation and a spur of the main Soviet BAM railway line was constructed to carry equipment to and coal from the site.

Under an agreement signed in 1974 the Soviet received a \$450m credit from Japan to buy mining equipment. The Japanese were to receive 100m tonnes of coking coal over 20 years from 1979—most of it from Neryungri when it comes into full production in 1983.

Last year a further \$40m was agreed for the construction of

a coal grading plant. The additional credit extension followed a session of the Japan-Soviet Joint Economic Commission which met in Moscow to give a bit more momentum to development projects.

But at Neryungri, the site of the Yskutia project, the huge diggers soon unearthed a problem. When the soil had been pulled away a heavy layer of steaming coal was found on top of the coking coal.

Minimal

Buyers had first to be found for the steaming coal and purchasers were not queuing at the door. Japan's demand for steaming coal is still quite small and its stockpiling facilities minimal.

In Yakutia as well lie potential natural gas resources which could dwarf all the other energy development. Both Japan and the U.S. have taken an interest and invested \$25m each in the Soviet exploration of the area. If the Soviets can confirm es-

timates of 1,000bn cubic metres of gas reserves then the project could go into the development stage. According to the Japanese side the Soviet Union has confirmed nearly 85 per cent of the reserves so far.

Japan and the U.S. could each eventually import about 100m cubic metres of gas in the form of liquid natural gas (LNG). If the development bears fruit this would be enough to meet Japan's projected LNG requirements in 1985 according to industrial estimates.

The extent and the cost of the infrastructure present the real problems. Japan will not go ahead with the development without the U.S. or another third party and U.S. participation would be so costly and politically sensitive it would require congressional approval.

In Yakutia as well lie potential natural gas resources which could dwarf all the other energy development. Both Japan and the U.S. have taken an interest and invested \$25m each in the Soviet exploration of the area. If the Soviets can confirm es-

timates of 1,000bn cubic metres of gas reserves then the project could go into the development stage. According to the Japanese side the Soviet Union has confirmed nearly 85 per cent of the reserves so far.

Eleven wells have so far been sunk into the 200-metre deep shelf and four have so far struck deposits of oil. The latest strike has been in the so-called Shavyo structure. A three-phase development programme is designed to develop the project if it proves commercially viable over the next five years.

Political snags arose here too as U.S. advisers or equipment have been used on the rigs and there were fears that the American ban on high technology exports to the Soviet Union would cripple the operation.

The project is backed by the Sakhalin Development Company which was set up in 1974 by a group of private concerns with a combined capital of ¥180m. The Japanese Exim bank has already backed 50 per cent of the development.

No shortage of time to play

LEISURE

DEREK DAVIES

A VISITOR to Japan these days could well conclude that people have cured themselves of "workaholism" and turned into a nation of leisure maniacs. Almost anywhere you look there are joggers in sleek sportswear, rollerskaters spinning about the parks, tennis players practising under highways and baseball pitchers on almost every street corner. Sports apart, the cities are bursting with enough bars, coffee shops, pinball parlours, game centres, cabarets, Turkish baths, restaurants and discothèques to keep the Japanese at play 24 hours a day.

What then happened to the energy crisis? Haven't those hefty price increases sent the oil-vulnerable Japanese scurrying back into their factories to toil even harder to keep up the rate of growth? Apparently not. Indeed, some sectors of the leisure business are benefiting from the higher oil prices.

Another reason is that the Japanese have more time on their hands. In 1970 the average employed person worked 255 days a year. By 1975 his stint was down to 236 days.

With longer holidays and the five-day week gaining acceptance, he is only expected to be at work for 224 days this year. By 1985 it is estimated that the Japanese working year will be an average of 211 days.

At the same time, the Japanese are spending more money on leisure. Total spending on all leisure pursuits in 1979 (nearly ¥30,000bn) was seven times greater than in 1965 (just over ¥4,000bn).

But while leisure time and spending are increasing, patterns of leisure activities are changing. "After the first oil shock in 1973 the Japanese way of thinking about leisure began to change," says Mr. Kenzo Yamada of the Japan Leisure Centre.

With this trend, night-life entertainments declined briefly and there was a boom in all sorts of sports as well as hobbies and do-it-yourself activities.

These trends sparked off by the first oil crisis have con-

tinued after the second. Sports continue to be a high growth area in Japan, with increasing enthusiasm among Japanese youth for tennis, diving, swimming, jogging, gymnastics and other individual sporting activities.

In the sixties and early seventies concentrated package tours were lined up back-to-back by travel agencies but now the Japanese are beginning to enjoy less group-oriented travel—setting up trips themselves and finding their own lodgings, often near good sporting facilities.

Increased transportation costs have inevitably had a major effect on travel. The Japan Automobile Federation says there is a trend towards short-distance journeys and day-trips while long weekend car trips are becoming less popular.

Similarly, the Japan Travel Bureau reports that long high-cost trips within Japan are declining. And during this year's national spring holiday, known as "Golden Week," domestic airlines reported steep reductions in flight bookings.

At the same time the number of Japanese travelling abroad, which reached a peak of 4m last year, 80 per cent of them tourists, levelled off in the early part of this year because of higher fares, a weaker yen and increased prices abroad.

Other factors, too, affect the changing patterns of Japanese leisure, and the Japanese are as much influenced by fashions, fads and technical innovations as anybody else. Computer-based electronic games, tremendously popular among young people, have even created school children turning to petty theft to satisfy their enthusiasm.

Discothèques, too, have become one of the fastest growing leisure outlets in recent months—increasingly frequented by middle-aged businessmen.

In the boom years, when the Japanese economy was burling along, the Japanese were sweating blood to keep up the pace. Now that pace has relaxed a little the people, particularly the younger Japanese, are also relaxing more. The goal of catching up with the industrial West has been achieved and it is being replaced by another goal known as "the quality of life."

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The remaining four pages of the survey carry profiles by Charles Smith and Richard Hanson on twelve leading personalities drawn from a cross-section of Japanese life—presenting in particular their views on the energy crisis.

Kiyoshi Kikuchi

IN ANSWER to the question of whether Japan will have to change its foreign policy because of the energy crisis, Mr. Kiyoshi Kikuchi, the Foreign Ministry's top official in charge of economic affairs, says: "It has already happened."

Up until 1973 Japan was "even-handed" in its policy towards Israel and the Arab world. Since 1973, says Kikuchi, "we had to give due weight in these countries." What that means is giving explicit support to United Nations resolutions on the Palestine problem and (by stages) a degree of recognition to the PLO, which now has an office in Tokyo.

Kikuchi says that until the recent EEC Venice summit, Japan was well ahead of Europe in its position on the Palestine issue. But the fact wasn't recognised "because we are not good at public relations." On the other hand, Europeans, especially President Giscard d'Estaing, are adept at PR, he claims.

Kikuchi says that Japan's present foreign policy should definitely not be characterised as "resource diplomacy," an expression which was dreamed up in 1974 by the Ministry of International Trade and Industry and which attracted a lot of bad publicity. "I felt this with my own skin at the OECD Development Assistance Committee meeting in 1974 when the European nations accused us of distorting our aid policy in favour of the oil producers."

The accusations were partly fair, but only partly, Kikuchi believes. What Japan actually did after the first oil crisis was to give additional aid to the



Mr. Kiyoshi Kikuchi

higher oil prices reduce the availability of funds but Japan lacks this option.

"We tried giving our surplus rice (even though rice costs in Japan are five times the world market level) but the U.S. accused us of undermining their traditional markets. That may leave helping non-oil producing countries to develop energy resources as our best aid-giving option. We are also telling the Communist industrial countries that they have to do their bit—at least that may put them on the defensive," he says.

Seeking a "stake" in overseas oil production as a means of ensuring Japan's energy supplies is an "outdated notion" and "not likely to work."

What will probably happen, according to Kikuchi, is the reverse: it will become more and more difficult to resist the demands of oil producers for a stake in the "downstream" oil industries of Japan—even down to the level of petrol stations.

This development is seen by Kikuchi as "ominous but inevitable."

He adds, however, that, where coal is concerned, Japan

could get heavily involved in overseas production.

"This be like the term re-

source diplomacy which carried all the wrong implications."

BITI has been told not to use it any more," he says flatly.

As far as the second oil crisis is concerned, Kikuchi (who spent several years running Japan's aid policy) says he expects the impact on aid can only be negative. "We would like to keep up the level of our aid programme but it could be difficult." Countries like the U.S. can switch from giving money to giving food when

odd man out at summit conferences," he says. Even so, the Venice summit may have been a turning point.

As "stand in" for Foreign Minister Saburo Okita (who was himself standing in for the deceased Prime Minister Ohira) Kikuchi attended no fewer than four highly informal sessions of the foreign ministers of the seven during the two days in Venice. "It was the first time, to my knowledge, that a genuine trilateral get-together of foreign ministers from the U.S., Europe and Japan has taken place and I hope it continues," he says.

Insight

Kikuchi's job as one of the two deputy ministers at the Japanese Foreign Ministry gives him special responsibility for economic affairs but he does not see himself as a "narrow" economic specialist. Seven years in Washington dealing with such thorny issues as textile quotas and dumping charges gave him an insight into the interplay of politics and trade issues in the U.S. A couple of years as private secretary to Mr. Masayoshi Ohira when Mr. Ohira was allocated the foreign ministry provided insight into the working of Japan's domestic politics.

Kikuchi was thus the natural choice for Ohira's personal representative during the preparations for the Venice summit. "It was a tragedy that the Prime Minister died before he could go to Venice. I took his photo with me and tried to do things the way he would have done them."

C.S.

Naohiro Amaya



NO ONE KNOWS what lies ahead for Japan so far as energy supplies are concerned, but Mr. Naohiro Amaya, Vice-Minister for International Affairs at the Ministry of International Trade and Industry (MITI), thinks the surprises are likely to be unpleasant rather than the reverse. "My personal guess is that we will face very serious oil supply problems in the next decade ... because of this I cannot honestly say that we have the situation under control."

Mr. Amaya says Japan needs to spend much more on developing alternative energy supplies, and particularly in furthering the growth of nuclear power and coal than has been done up to now. "We should use the revenue from petrol tax to develop alternative energy, not to build roads, although ten years ago it was right to use it for road building."

Delighted

Mr. Amaya thinks there is an important job to be done in convincing Japanese public opinion of the gravity of energy problems and that one reason why the job has not been done is that economic success has deluded the country into a false sense of security.

Mr. Amaya thinks "a lot more" than the Y7,000m (about \$1.5bn) which a Government committee said two years ago should be spent on developing new energy resources over the next decade actually needs to be spent (the figure relates only to government spending and investment). "We may have to increase taxes, but the notion of tax has been taboo recently. With a greatly strengthened ruling party

Iranian petrochemical complex) have no option but to press ahead with their projects even if to do so costs them money. One reason why they must persist is that "if the oil producers decide to give up their industrialisation programmes they might also stop producing oil."

Fortunately, Mr. Amaya notes, the major oil-producing countries still appear to be dedicated to industrial development. "It is encouraging to see that the revolutionary government in Iran is still extremely anxious to complete the Bandar-e-Khomeini petrochemical complex."

One of the problems Japan faces in doing business with oil-producing countries, Mr. Amaya says, is that companies which are in a position to supply the hardware the oil exporters want may not necessarily have any

interest in oil. The steel industry, for example, has no special incentive to build plants overseas so that the refiners can increase their oil purchases. A wry round this Mr. Amaya speculates, might be to create a "giant company, on the model of your East India Company, which could absorb everything into its stomach."

The essential element would be the risk-bearing function—in other words the same company would benefit from the increase in oil imports while bearing the risks on involvement in heavy industrial ventures. Mr. Amaya says, however, that there is absolutely no way in which such an entity or entities could be created today. It would take a major crisis to bring about such an important change in the structure of Japanese business.

Headlong

If Japan runs headlong into another oil crisis the result, Mr. Amaya foresees, would be a repetition in a greatly intensified form of the "structural recession" (i.e., recession in energy-consuming industries) which followed the 1973 oil crisis. Industries such as aluminium and petrochemicals and perhaps even steel could face a grim future in such a situation. To some extent several of those industries will need to be phased out in any case.

What Japan needs instead, Mr. Amaya says, are technology-intensive industries that use less energy and provide more added value. Bringing such industries into existence will not be easy but MITI, Mr. Amaya implies, is working on it.

C.S.

Masumi Esaki



Mr. Masumi Esaki

MR. MASUMI ESAKI, a senior member of the ruling Liberal Democratic Party and former Minister for International Trade and Industry, has become Japan's roving "Energy Ambassador" since the Iranian revolution jolted international oil trading two years ago. He has travelled to both the Middle East and Mexico (as the Prime Minister's special envoy) seeking direct deals on oil supplies, and expects another trip soon.

The 65-year-old Lower House Diet member (first elected in 1946) has long been identified with two of the country's most difficult problems—defence and energy. In the 1960s he served twice as Director General of the Defence Agency, and presently leads the National War Veterans' Association. As Minister two years ago in the first Cabinet of the late Mr. Ohira, he claims to have launched Japan's first serious energy "diplomacy" effort in the Middle East. Mr. Esaki believes strongly that Japan's security rests squarely on the success of that effort.

Mr. Esaki was in charge of the Defence Agency during the turbulent times which followed the "railroading" of the U.S.-Japan Security Pact through Diet in 1960, as a result of which he thoroughly appreciates the importance of the U.S.

nuclear umbrella" to Japan's defence. He blames, however, what he calls the U.S. "oil umbrella" for much of Japan's present vulnerability to oil crises.

His rather extreme view is that post-war American policy was aimed at keeping Japan under the thumb of the big American oil companies, which until recently supplied the bulk of its oil. The domestic

oil industry was hurt badly when the majors shut off supplies to non-affiliated companies after Iranian oil was cut off.

"The oil umbrella was torn to shreds by the sandstorm which swept the Middle East in 1973," says Mr. Esaki. "We had an energy policy but no Arab diplomatic policy," he adds.

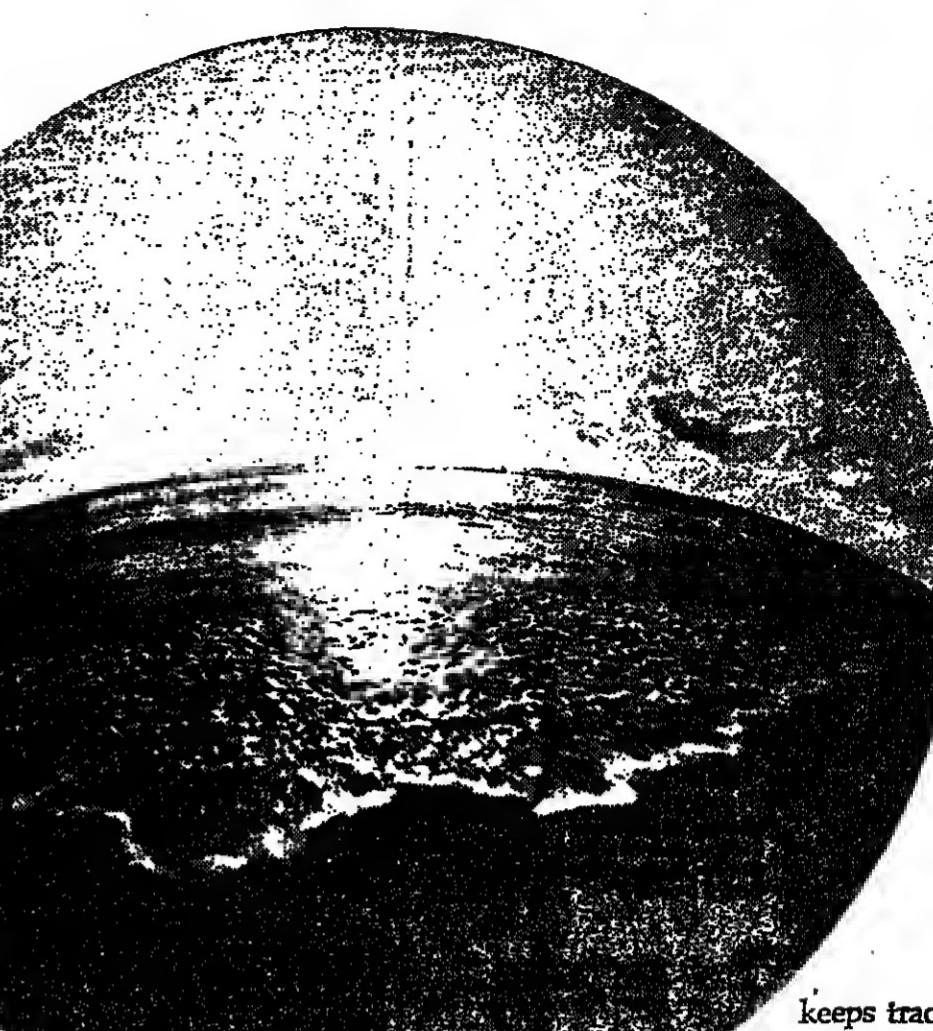
Identified

Mr. Esaki has since become so clearly identified with Japan's economic self-interest in procuring oil that when the Afghanistan crisis prompted a "political" trip round the Middle East in February the Prime Minister had to pass him over in favour of a former Foreign Minister. "I have oil on my face," he explains.

The efforts of the "Energy Ambassador" seem to have paid off. His trip to Mexico earlier this year on the heels of Prime Minister Ohira resulted in a much firmer commitment from the Mexicans to raise shipments of crude oil. Mr. Ohira had been able to get a public promise of shipments of 100,000 barrels per day (b/d) by the end of 1982. Mr. Esaki confirmed a Mexican willingness to export 300,000 b/d in 1982. He attributes his success (with the modesty expected of

R.H.

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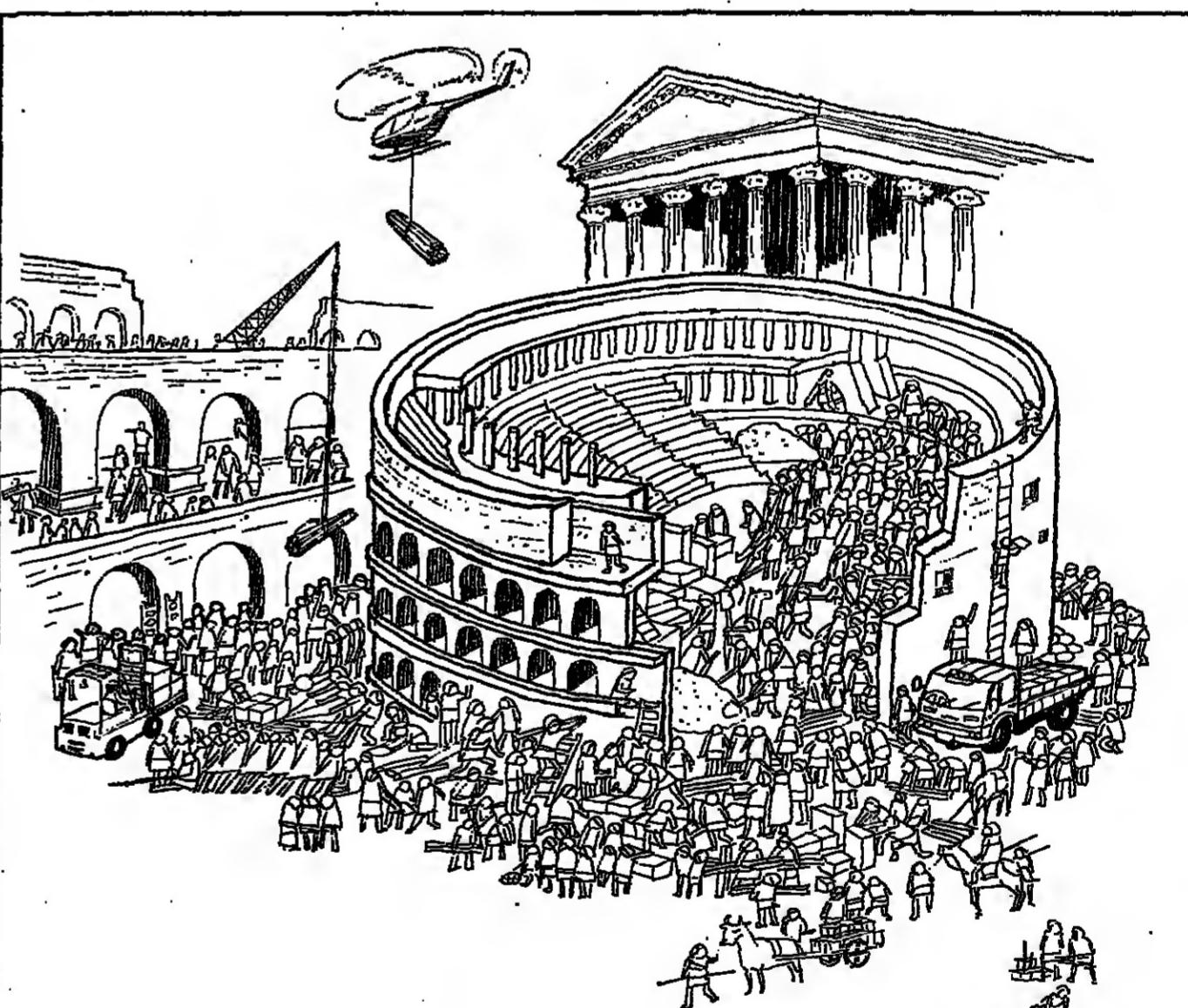


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JAPAN XVII

Toshikuni Yahiro

MR. TOSHIKUNI YAHIRO is president of Mitsui and Company, one of the top two general trading companies that handle the bulk of Japan's imports and exports. He also happens to be the man who in 1972 took over responsibility for the project which has since become Mitsui's biggest megaproject—the \$3.3bn Bandar-e Kaveh petrochemical complex.

"Part of my mind is always on Iran," says Mr. Yahiro, who gave up direct charge of the project last year when he became chief executive. The unknown 65-year-old president would prefer to spend his time trying to regain Mitsui's former position as number one trading company from the present holder, Mitsubishi Corporation. Intellectually he would probably be more comfortable contemplating the intricacies of Japanese, the classic Japanese language in which he has been devoted since his university days, than to those of an Iranian revolution.

Mr. Yahiro was, nevertheless, a natural choice for the Iranian venture. Before becoming president of the Japanese partner in the project he had spent most of his career in the chemical and petrochemical divisions of Mitsui and its group of related companies. (His only career setback came in another trading area, rubber, where he lost money speculating in 1960.)

The Iranian project had been conceived in 1969, three years before Mr. Yahiro became involved. Iran wanted to industrialise by making use of the associated gas being burned off at its oil-fields. The Japanese wanted to win a concession to explore for oil in the southwestern Iranian desert of Lorestan.

According to Mr. Yahiro, the



Mr. Toshikuni Yahiro

Japanese agreed to build the complex solely to win the concession. Unfortunately, nine dry wells and tens of billions of yen later, the oil concession was declared worthless and the office closed down in 1979. Mitsui and a group of five original companies, however, were stuck with a huge project which had looked viable while the Shah was in power but became increasingly problematical under Ayatollah Khomeini.

Mr. Yahiro has had to steer a very narrow course in keeping the project from collapsing altogether. Last autumn, when the cost of construction had to be revised upwards, he persuaded the Japanese Government to take an equity share, while increasing his own company's exposure and bringing in additional partners from the private sector. The complex, now 85 per cent complete, has been "exempted" from the U.S.-inspired sanctions against Iran, but little or no work has actually been done on the project since March last year, and Mitsui is having problems getting operations restarted.

Conditions

"We can't give up," Yahiro says. Completion, however, has been made all the more difficult by the latest conditions set by Iran, which include starting work simultaneously on all 13 portions of the complex (instead of nine key LPG plant areas, as Mitsui had intended).

Another, potentially very serious snag is the threatened non-availability of associated gas, the material which the complex was supposed to use as feedstock.

Associated gas is in short supply because it is produced as a by-product from the oil fields, where production has

R.H.

are not more forthcoming).

Mitsui's problems in Iran have tended to obscure the fact that the Japanese trading companies have otherwise profited handsomely from the second oil crisis. Mr. Yahiro can assure his shareholders that his company can absorb safely any possible losses from Iran, which are mostly Government-guaranteed anyway. Last year Mitsui had a 1.06% per cent jump in net profit (consolidated) to \$114m and a 34.6 per cent increase in sales to \$45bn.

A large part of the increase was directly related to the fact that trading companies have become important procurers of oil since the Iran crisis disrupted supplies from the majors. They now handle about 40 per cent of oil imports. It is perhaps fair to say that the success of trading companies nowadays is dependent on the energy trade. Mr. Yahiro agrees.

If the price of oil stopped going up, Mitsui could become larger than Mitsubishi Corporation," Mr. Yahiro claims, attributing the rival company's lead to the fact that Mitsubishi has the largest share of the oil business.

Mr. Yahiro knows perhaps as well as anyone in Japan what involvement with the oil-producing world can mean.

Like a mistake now," he concedes, "but it was also the cost of winning the right to explore for oil." Mr. Yahiro believes that "to secure resources, Japan must do something reciprocal. We can no longer just pay cash and get oil." His advice to others contemplating involvement in huge petrochemical complexes in the Middle East is to "do it carefully."

R.H.

Hiroshi Anzai



Mr. Hiroshi Anzai

MR. HIROSHI ANZAI, the 78-year-old chairman of Tokyo Gas, the world's largest privately-owned city gas company, has earned the title "Mr. Energy" in Japan. A burly ex-Judo master and god enthusiast, Mr. Anzai helped lead the way in the early 1950s for Japan's switch from coal to oil, the fuel for Japan's economic miracle. Luckily he also had the foresight to diversify in the late 1960s away from crude oil to liquefied natural gas (LNG). Nowadays, Tokyo Gas relies on LNG for 60 per cent of its energy needs.

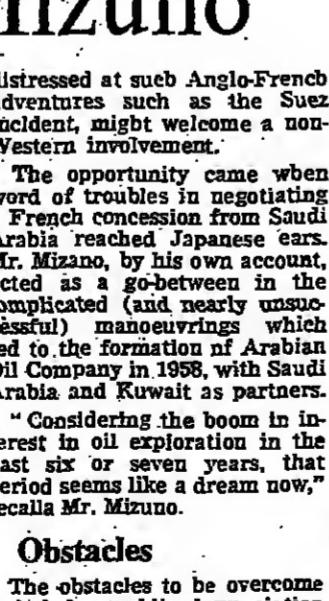
"I studied night and day how to introduce LNG," Mr. Anzai says. In fact Tokyo Gas learned its early LNG technology from Sir Henry Jones of Britain's Gas Council. Tokyo Gas now claims to be second to none in the delicate art of transporting and storing large quantities of the precious commodity (at minus 162 degrees C).

Arranged

Two years after becoming president of Tokyo Gas in 1967 Mr. Anzai arranged for the first import of liquefied gas from Alaska. Some 960,000 tonnes were shipped annually under a 15-year contract in specially built tankers. Today supplies of LNG to Japan have risen sixteen-fold to about 15.7m tonnes a year under long-term contracts with Brunei, Abu Dhabi and Indonesia. Japan already accounts for 50 per cent of total world trade in LNG. A Government advisory committee says demand will double again in five years and reach 50m tonnes in 1992.

LNG will fill the gap

Sohei Mizuno



Mr. Sohei Mizuno

MR. SOHEI MIZUNO had a direct hand in two of the most important steps taken by Japan in the energy field after World War II. He attended, in a junior position, the first high-level business discussions on the introduction of nuclear power into "nuclear allergic" Japan, and he was among the original few who thought that a Japanese company could win a Middle East oil concession in competition with the West, the latter idea developed into the Arabian Oil Company, of which Mr. Mizuno is now chairman.

Arabian Oil is Japan's only major producer of oil overseas. Now, 57, Mr. Mizuno has moved among the most powerful business and political circles in Japan almost from the time he left Hokkaido University, where he studied biology. His first job was as personal secretary to Mr. H. Kobayashi, one of the best-known post-war Japanese business leaders. It was in this capacity that he took part in the first two secret meetings on nuclear power held in 1952.

The discussions were suspended temporarily because of fears that the public would get wind of them. Four years later, however, Japan was bold enough to send a mission to the U.S. and Europe to study nuclear power. Mr. Mizuno, as a result of his early experience, was part of this group. The mission eventually recommended the purchase of a "Cader Hall" type gas-cooled nuclear power plant from the UK. Japan's first and last British reactor. The decision went against the better judg-

ment of Mr. Mizuno who felt Japan would be better off devoting its meagre resources to more basic research. The trial, however, put him in touch with some Japanese businessmen in Europe who sensed a chance to move into the Middle East oil business.

The idea that Japan, just back on the road to economic recovery, could nudge its way into a Middle East oil concession might have been absurd but for the fact that the Arab oil producers were showing the first signs of becoming disenchanted with the West. Mr. Mizuno and a handful of others perceived that the Arab leaders,

the Finance Ministry objection to the project could have killed it from the start, given the fact that Japan's foreign exchange law theoretically banned the transfer of capital needed to win a 6,000 square mile concession from the Saudis. This did not prevent the colourful main character in negotiating the deal, Mr. Taro

R.H.

Condensed Statement of Condition
The Fuji Bank, Limited

Non-Consolidated Balance Sheet

	(March 31, 1980)
	(\$ in 1,000) (\$ in 1,000)
Cash and Due from Banks	2,409,467,212 (9,659,119)
Call Loans	437,285,695 (1,753,016)
Securities	1,998,113,881 (8,010,880)
Loans and Bills Discounted	8,257,394,384 (11,104,421)
Foreign Exchanges	849,565,382 (3,405,754)
Other Assets	517,328,798 (2,075,080)
Premises and Equipment	156,385,145 (6,265,519)
Customers' Liabilities for Acceptances and Guarantees	1,321,049,617 (5,295,849)
TOTAL	15,947,498,114 (63,930,640)
LIABILITIES	
Deposits	11,380,872,816 (45,633,864)
Call Money	1,215,161,939 (4,872,167)
Borrowed Money	578,665,140 (2,319,764)
Foreign Exchanges	202,544,943 (811,966)
Other Liabilities	697,480,516 (2,796,073)
Reserve for Possible Loan Losses	115,015,915 (461,078)
Reserve for Retirement Allowances	47,151,715 (189,023)
Other Reserves	23,663,846 (94,864)
Acceptances and Guarantees	1,321,049,617 (5,295,849)
TOTAL	15,581,806,447 (62,464,648)
STOCKHOLDERS' EQUITY	
Common Stock	89,100,000 (357,186)
Capital Surplus	2,234,917 (8,019)
Legal Reserve	22,030,000 (88,314)
Earned Surplus	252,336,750 (1,011,573)
TOTAL	365,391,667 (1,463,992)
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	15,947,498,114 (63,930,640)

Non-Consolidated Statement of Income

	(Year ended March 31, 1980)
	(\$ in 1,000) (\$ in 1,000)
Interest on Loans and Discounts	58,129,189 (2,354,019)
Interest and Dividends on Securities	136,219,934 (546,079)
Other Interest	154,079,100 (617,675)
Fees and Commissions	37,225,689 (149,231)
Other Income	62,814,277 (251,843)
Transfer from Reserves	6,807,177 (27,409)
TOTAL INCOME	979,404,436 (3,926,256)
EXPENSES	
Interest on Deposits	500,107,061 (2,004,438)
Interest on Borrowings and Rediscounts	140,355,301 (562,450)
Other Interest	16,790,250 (67,309)
Fees and Commissions	17,426,241 (69,659)
General and Administrative Expenses	163,141,868 (654,006)
Other Expenses	111,814,072 (445,713)
Transfer to Reserves	-424,279 (1,701)
Total Expenses	949,328,072 (3,805,685)
Income before Income Taxes	31,076,364 (120,571)
Provision for Income Taxes	8,981,611 (36,016)
NET INCOME	21,094,753 (84,565)

Note: U.S. Dollar equivalents are made at the rate of Yen 24.45 per U.S.\$1.

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JAPAN XVIII

Ryukichi Imai

JOB-HOPPING IS not a Japanese practice but it is what Dr. Ryukichi Imai will be doing next month when he leaves his post as general manager for engineering at the Japan Atomic Power Company (JAPCO) in order to become Japanese Ambassador to Kuwait.

Actually Mr. Imai has spent quite a large part of his career hopping jobs as well as academic disciplines. He studied mathematics at Tokyo University before taking three post-graduate degrees in three successive years at three different American universities (in political science, law and international relations).

With his American training behind him Mr. Imai joined the Asahi Shimbun, one of Japan's leading daily newspapers, as its specialist on nuclear power, but that job only lasted two years. He moved to JAPCO after his increasingly pertinent criticisms of that company's attempts to negotiate the purchase of Japan's first nuclear reactor (from the UK) convinced the JAPCO management that it would "better to have me on the inside than the outside."

Looking back on his days at the Asahi, Mr. Imai says that he made a mistake in opting for journalism: "I have to be a part of the action," he says. But the Japanese relations when the Carter Administration's fears

need to write has not left him completely. For the past decade or so he has been turning out books either on his own or in co-operation with others at the rate of about one every two years. Most of the titles relate to nuclear power but Mr. Imai says he has written about the military situation in the Middle East under a pseudonym. "Being a scientist I can understand the basic facts of the military balance better than most people... for example I know just how much oil the Warsaw Pact would need to go to war."

Mr. Imai will not be the first non-diplomat to take up an ambassadorial post for Japan, but at 51 he probably will be the youngest to do so since the war. "Officially I don't know who picked me for the job," he says. But his extensive contacts in the academic world won him the acquaintance same years ago of the distinguished economist Dr. Saburo Okita, who last October became Japanese Foreign Minister.

His nuclear expertise has involved him with politicians and bureaucrats in other important ways. "I was behind the Carter-Fukuda confrontation of 1977," he says, alluding to the tense period in U.S.-Japanese relations when the Carter Administration's fears

about the military implications of nuclear fuel recycling threatened to put a spanner in the works of Japan's nuclear development programme—but didn't thanks to some dexterous behind-the-scenes negotiations. Mr. Imai's willingness to switch from nuclear to Middle Eastern diplomacy derives from an interest in people and a conviction that the future of nuclear power cannot be understood without a grasp of energy problems as a whole. "Energy means oil and you can't hope to understand what is going on in the oil world unless you have some insight into Islam and the Arabs."

Thinking

Mr. Imai's thinking on what Japan can do to cement its ties with the Arab world would appear to put him one jump ahead of the Japanese politicians who made hurried tours of the region after the 1973 oil crisis offering cement factories or petrochemical complexes in return for guaranteed supplies of oil. "People tend to assume that we are doing the Arabs a favour by offering them hardware," he says, "but it can just as easily be argued that they are doing us a good turn by becoming our customers. In any case I feel that experience

may be the most valuable thing Japan has to offer. We have had the experience of building our economy up from scratch since the war and of adapting and improving technology developed by others. The Middle East is at a stage where it needs to learn to do just this."

Taking his argument a stage further Mr. Imai says that Japan's course of development as a "non-military" State (i.e., a state which is relatively lacking in conventional military equipment) could offer some useful lessons to newly emerging countries. His point is not that the Middle East (or other newly developing regions) should ignore the military facts of life but rather that Japan's experience suggests a broader definition of what constitutes a military capability.

"Nowadays possessing a certain number of F-15s may be less important to a nation than having a broad technological base—for example, technologies related to water could be of vital military importance in the Middle East." Mr. Imai foresees Japan will certainly develop technologies with a military as well as civilian "potential" and will have to decide on what terms, if any, to make these available to developing countries.



Mr. Ryukichi Imai

SHUICHI ISHIBASHI is a small, cheerful man who graduated from the mechanical engineering department of Kyushu University and has spent most of his career working for Kyushu Electric Power Company, the private enterprise utility which supplies power to the southern main island of Japan. That may not make him sound particularly remarkable, but there is something about both Mr. Ishibashi and the company of which he is now vice-president that has brought streams of foreign visitors to Kyushu Electric's headquarters in Fukuoka.

Kyushu Electric operates the largest, and in one important respect most advanced, geothermal power station in Japan—the Hatchobaru station which generates 50,000 kW of electricity from steam heated by volcanic magma. Hatchobaru uses a unique "double flash" system for separating and concentrating the steam which was developed jointly by Kyushu Electric and Mitsubishi Heavy Industries and which is now being sold to many other countries lucky enough to have heat trapped under the ground.

More interesting still, there could be according to Mr. Ishibashi, a lot more Hatchobarus in Kyushu before long if the Government takes the right steps to promote development.

Mr. Ishibashi says Kyushu's geothermal power resources have been estimated at up to 1000 kW of recoverable power if the fairly shallow hot water reservoirs whose existence has been confirmed today are tapped. Kyushu Electric's present power generating capacity is about 8m kW—so geothermal power, in theory at least, has a good deal to offer.

Geothermal power is good, as Mr. Ishibashi sees it, because the energy itself costs nothing—at least so long as it is developed by the power generating company. All that has to be done is to sink wells into the ground and pipe the steam from them straight into turbines. The cost of electricity from such a system works out at about 10 yen per kWh—half the cost of electricity from oil-powered thermal power stations and with nearly the entire bill accounted for by the capital write-off cost of the power station itself.

This beautifully simple receipt for obtaining cheap trouble-free power turns out on closer investigation, however, to have some snags. A major problem is that nearly all the geothermal heat in Japan

happens to be located in Environmental Protection?—national parks which the Environmental Protection Agency does not want to see disfigured by a proliferation of power stations. A second problem is that some troublesome chemicals (including arsenic) come out with the water and have to be disposed of, normally by pumping back into the underground reservoirs, which costs money. Finally there is the unresolved question of just who is supposed to put in an order for a new drilling rig with a 4,000-metre range suggests, however, that it has a shrewd idea that deeper reserves are waiting to be found.

Geothermal energy is not the only intriguing new kind of energy with which Kyushu Electric has been experimenting. Because its territory includes a large number of tiny offshore islands with small (and under recent circumstances) uneconomic power requirements, the company is doing experiments with wind power, fuel cells, and Ocean Thermal Energy Conversion (measuring the use of different water temperatures on the surface and in the depths of the ocean to generate power).

An Ocean Thermal pilot plant may go into action soon at Tokunoshima, the southernmost island in the Kyushu group and not far from where the James Bond film "You Only Live Twice" was shot. Pending the success of this project, Kyushu Electric has no plans to generate power for its customers on the small islands as it does for others.

Kyushu Electric is by no means the largest of Japan's nine electric power companies (Tokyo Electric for example is three times the size), but it has a remarkable number of firsts to its credit—including that of having operated its one and only nuclear power station at the (then) highest ratio of capacity ever achieved by a light water reactor. The feat was achieved by two technical innovations which the company dreamt up in its own laboratories and then had tested by Japanese heavy machinery manufacturers including Mitsubishi Heavy Industries.

Mr. Ishibashi says nuclear power will take up most of the slack as Kyushu Electric steadily reduces its dependence on oil throughout the 1980s. In the long term, however, Japan's "homegrown" geothermal energy should come into its own.

A technical difficulty about geothermal energy is that power

Shuichi Ishibashi



Mr. Shuichi Ishibashi

Shizuo Asada

MR. SHIZUO ASADA, president of Japan Air Lines, is a silver-haired former bureaucrat. He spent most of the 1950s laying the foundations for the remarkable expansion of Japan's merchant navy and most of the 1960s helping JAL to become approximately number three in the world.

Since 1971 (when Asada became JAL president) he has had a different problem on his plate. JAL's profits took a plunge after the first oil crisis when its fuel bill doubled in 12 months. The airline made an impressive comeback after an Asada-inspired reconstruction programme had been implemented, but by the end of 1978 the same problem cropped up again. JAL's fuel bill jumped from ¥49bn (£97m) in 1978 to ¥107bn (£22m) last year and to an estimated ¥171bn (£339m) in 1980. As a ratio of total costs, fuel was 8.6 per cent in 1972. In 1980 it will be 33 per cent.

The one thing that JAL cannot do about its fuel problem, Asada says, is to stop using oil.

Realistic

Asada is realistic enough to admit that cutting fuel consumption in 1980 will not be the end of the story. There will be no ceiling on oil prices or on the ratio of an airline's costs which could be accounted for by fuel (a 40 per cent ratio is perfectly conceivable Asada says). But aviation is a young industry and must have a future what-

ever happens to oil. Asada remains supremely confident that he can pilot his airline through this crisis and the next one no matter how steep the price rises that have to be faced.

Asked how JAL's efforts to deal with energy problems compare with those of other airlines, Asada says that "while we may not be number one, we must be somewhere fairly near the top. JAL's yield in terms of available tonne-kilometres per gallon of fuel has risen by 24 per cent in the past seven years, and by an impressive 40 per cent on routes inside Japan."

One of the reasons why its domestic yields have grown so fast is that JAL is the only airline in the world to fly short-range Boeing 747s with 550 seats. The 422 all-economy seat configuration on the JAL jumbos which fly from Tokyo to Honolulu is also a record (for international routes) and one Asada claims, that has been achieved at no extra passenger comfort. "Our engineers remodelled the seats on the 747

so skilfully that you could never notice the difference."

Asada sounds calm and confident when he discusses the immense practical difficulties facing his industry as a result of higher oil prices, but less so when the conversation turns to international aviation politics.

He says that U.S. policies of laissez-faire have helped to create "miserable load factors" that are a "waste of energy" for the airlines concerned. He finds it particularly unreasonable that Japan should submit to U.S. air fare policies as a precondition for obtaining concession on the Pacific routes linking Japan with the U.S.

"There's an imbalance already in the Pacific so they have no right to demand conditions from us. The de-regulation of aviation policy advocated by President Carter sounds beautiful in theory but it is simplistic to try to impose one's policy on others."

Asada admits that his career as a bureaucrat looking after the shipping industry may have marked his attitudes towards



Mr. Shizuo Asada

aviation. Aviation, he says, is the daughter industry of shipping and will ultimately prosper if the same principles are applied to its management. To Asada this means co-operation rather than cut-throat competition—especially at a time when energy problems are making life more difficult for everyone.

C.S.

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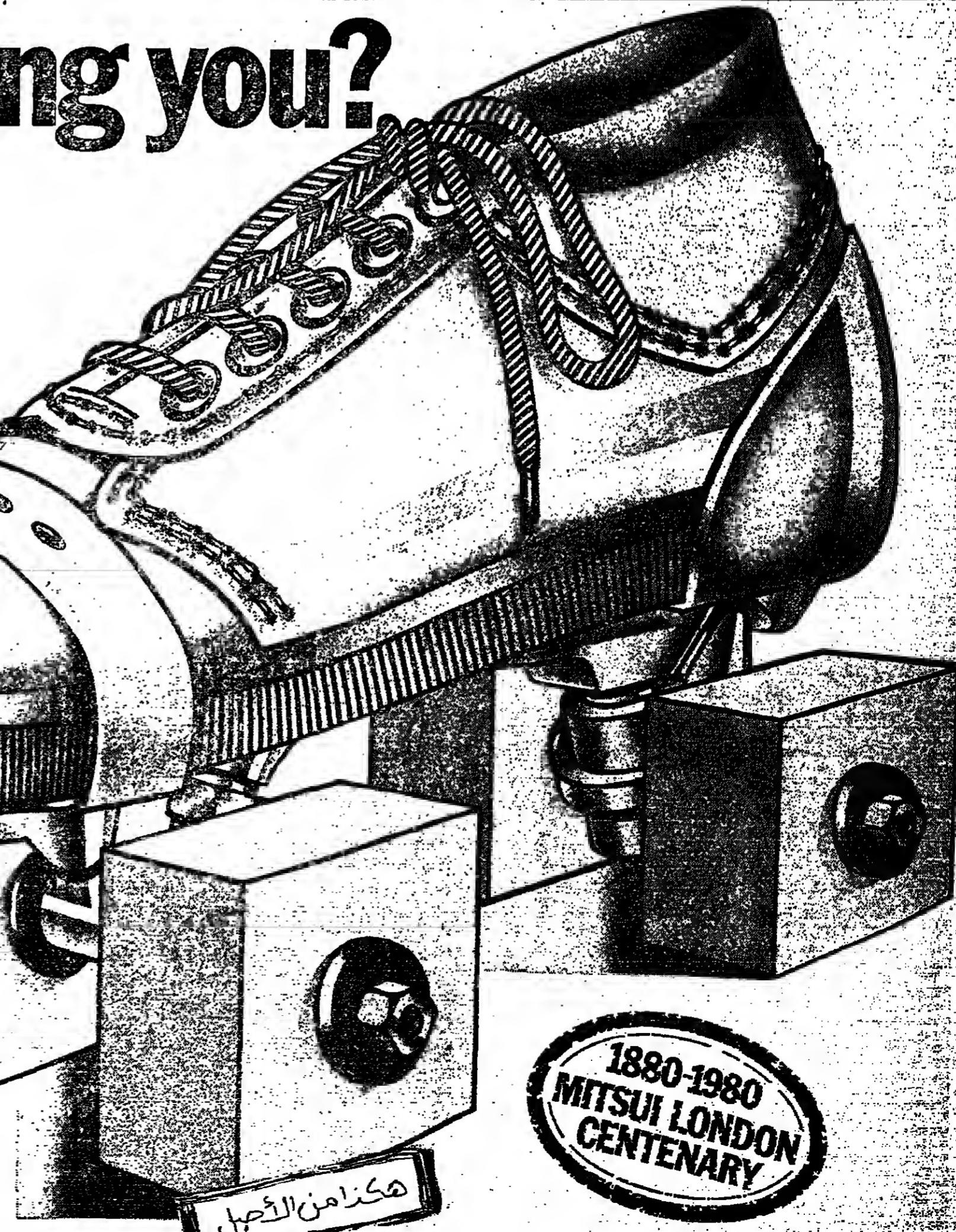
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The Gordian Knot of the rates

BY ROBIN PAULEY AND ANATOLE KALETSKY

THERE IS only one day each year when Britain's body politic shows any interest in the lives of 3m people who provide their most essential services—organise their children's education and spend over one-eighth of the nation's income. That is the day early in April when the bill for local authority rates arrives. Calls go out in local newspapers for cuts in bureaucracy and waste, there are exposés of the venality of local councillors and cries of outrage about the inequity of the rating system.

But the furious passions which the rates arouse are as ephemeral as they are powerful, so that the many proposals for reforming local government finance have invariably been bundled up in miles of red tape and ignored by politicians, officials and the public at large.

Confidential

However, the Department of Environment's own confidential report on abolishing the rating system could have more lasting consequences than any of the earlier proposals for reform. For there are two new factors to counteract the paradoxical and debilitating combination of apathy and undirected fury that is the British public's stock response to local government taxation.

The first is the Government's somewhat rash manifesto commitment to abolish rates as soon as the success of its other fiscal and monetary policies allows.

A recent Conservative conference: Ministers have been noticeably taken aback at the seriousness with which party activists, some of whom see rates as a sort of covert wealth tax, are clinging to this promise.

Secondly, there is the muddle and embarrassment which the Government has brought upon itself with the Local Govern-

ment and Planning Bill. This received its final reading in the House of Commons last week, but still has obstacles to surmount in the Lords. Although it rarely made the headlines, the Bill has caused Ministers more headaches than any other piece of legislation this session. The Government's intention, to increase its control of local spending, has flown in the race of many Conservative stalwarts' faith in local government and decentralisation.

The two features are really inseparable because of the popular judgment that the rating system is far more inequitable and onerous than central government taxation, based on income and expenditure, and so makes local authorities inevitably rely on central government grants, for a very high proportion of their spending—about 50 per cent total expenditure. But the great disparity between local spending and local revenue underlines the suspicion in Whitehall that councils cannot be trusted to control their spending responsibly and also accounts for the relative lack of interest among electors in local politics.

If councils had to raise much of their money locally, their fiscal demands would make a greater impression on local electors. The link between local spending decisions and their costs would become crystal clear and local residents would have strong incentives to control their councillors' spending decisions.

An alternative approach to the problem of "accountability" would be to remove the financing of certain nationwide services from the local authorities. Education, for example, accounts for half of all local expenditure. Handing over its expenditure directly to central government would be highly controversial, but would leave many authorities able to pay

for all their other services exclusively from local revenues.

Advocates of local autonomy would like to see a decision to modify the present rating system rather than abolish it and to supplement rates with other local taxes, such as the income and expenditure taxes which the DoE committee have put forward. These extra revenues could then replace much of the Rate Support Grant (RSG) and enable the Government to cut national taxes. It is possible that some such scheme may be put to voters in the next General Election.

In the meantime the new RSG arrangements contained in the Local Government Bill will give

to provide the same level of service. It does this by using a hideously complicated formula, which assesses spending needs based on past expenditure patterns. This has been widely criticised and the formula is not helped by the fact that much of the data used is old and unreliable, making a complex calculation extremely precarious.

The Government's proposals for reform fulfil the aim of tightening control over local government finance. But an important book^{*} by Tyrrell Burgess and Tony Travers published this week, and reflecting the views of many supporters of local government, makes it

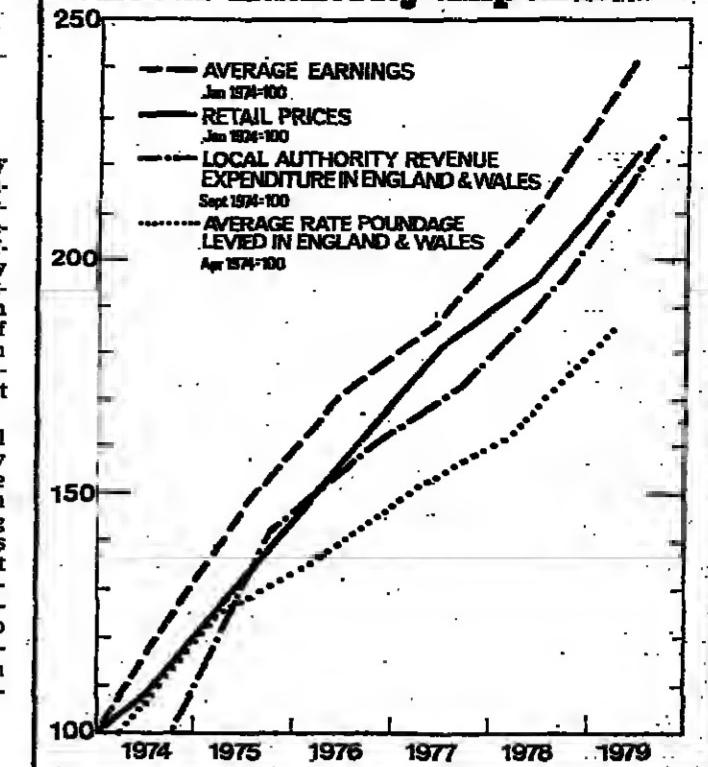
clear that the proposals outlined in the Government's Bill are riddled with technical problems and claims that they will undermine the whole system of local autonomy which still exists in Britain.

Under the new plan the Government will now assess what it thinks each of the 457 local authorities in England and Wales needs to spend. Then a rate poundage will be levied which will be the same for every authority and would raise different amounts depending on each authority's rateable value.

The main problem with the proposed block grant is that although it appears to be eminently desirable in principle, it has been very difficult to establish in detail. Burgess and Travers say this philosophy has gone badly wrong because of the confusion over equity, equality and equalisation.

Equity between individual ratepayers and residents within an authority and in different

Key Indicators of the Economy & Local Authority Expenditure



Letters to the Editor

Glorious gardener

From the Director, British Road Federation.

Sir—Two years ago, the Minister of British Rail and of the British Road Federation were joint signatories of a letter to this newspaper which made a plea for greater transport investment resources. That letter concluded: "The transport industry must be seen as a whole vital to the nation's industrial development. In writing this letter together, we want to demonstrate our paramount and shared concern, steel and rubber wheel within the industry. We are not simply concerned with our comparative claims on resources within the industry, but with decisions on investment strategy to provide the right framework for each transport mode to make the most of what it can offer."

It is odd that BR should feel it appropriate to claim that rail investment is unfairly treated in comparison with road (advertisement, July 17). The fact is that in the last five years, trunk road investment has been reduced by no less than 40 per cent, while rail investment has declined by just 18 per cent. Indeed, investment in rail is running at three-quarters of the level of the trunk road construction budget. Yet rail is responsible for less than 14 passenger miles and one in six freight ton miles moved. This is hardly undervaluing the railway.

Road users need have no fear that we're all transport projects assessed on their relative merits and subjected to the same kind of tests. This would result in cancellation of the M25 in favour of four high-speed trains as BR suggests. With predicted traffic of 80,000 vehicles daily, each mile of the M25 when complete will carry well over 100,000 passengers and 200,000 tons of freight. As this is over five per cent of the total daily traffic carried on the whole of the BR network, it is doubtful to say the least that the transport terms four high speed trains or 28 miles of electrified route represent better value.

And on electrification, it should be noted that the BR chairman himself said "rules for investment appraisal create problems for railway electrification schemes in that the massive initial costs in the early years outweigh the discounted values of the benefits in the succeeding years". Given economic stringency, it is hardly surprising that loss-making projects should be deferred, when there are many profitable investments which are being put back—so least, important industrial road links and by-passes.

This surely is the nub of the BR complaint. Public capital investment has been cut back much too severely overall—all shades of the political spectrum agree on that. If economic prosperity is ever to be regained, our capital base must be protected and improved. Recovery will not be achieved by public shaming (at public expense) by BR at the road budget, already much too low on any criteria—economic, social, safety, environmental or international.

R. H. Phillipson
British Road Federation
388-396, Oxford Street, W1.

Higher status for engineers

From Mr. L. Crystal.

Sir—Apropos the Lombard article by Hazel Duffy (July 17) the answer to the problem of higher status for engineers is simple. Restrict the term "engineer" to persons qualified by university education and/or membership of one of the present institutions which prescribe the regulations governing the term "chartered engineer".

Prohibit the use of the word "engineering" in company titles or names unless at least 50 per cent of the directors and at least 65 per cent of the staff of the company are chartered engineers.

The Press and other media should stop using the term "engineer" when referring to trades unionists and others involved in the engineering industry unless specifically related to chartered (ie professional) engineers.

Chartered engineers themselves should stop qualifying their own title. We do not expect to see converging solicitor contracts, solicitor engineers, etc., so why gas engineer, chemical engineer, automobile engineer, etc?

Life is 6-5 against

From Mr. A. Guest.

Sir—Professor Harold Edey, in his third paragraph of the letter printed by you on July 9, is precisely, but entirely theoretically, correct.

Hard times and no cushions

From Mr. R. Miller.

Sir—From reading (July 16) your report of the Chancellor's speech it does appear that this Government's policy is to "persuade" some labour to move out of the manufacturing sector. For this policy to be realistic there must be sufficient demand in those other sectors to absorb those people and the economy must, therefore, be turned accordingly.

It is so sad seeing companies which were viable and reasonably well run going out of business simply because they can no longer export due to sterling, somewhat unexpectedly given the UK's other problems, becoming a hard Petro currency and by crippling high interest rates which have hit those companies which are financially structured through high gearing.

One of Britain's great strengths in the past has been its innovative ability, but industry in recent times has sadly failed to come up with sufficient money spinning ideas, or if it has, insufficient incentives have been made available for their commercial exploitation. Should not this Government be encouraging companies to tap the innovative talent we have through greatly increased spending on R & D. An item which is often the first to be cut by companies in recessionary times. New ideas which are financially viable could result in many of the skilled labour force who would otherwise be redundant being relocated in these new ventures.

Competition and costs

From Mr. P. Mason.

Sir—Re the report by Elinor Goodman (July 16), Chancellor Howe argues that unit labour costs must be cut in order to make ourselves competitive abroad and that the resources should be redeployed into newer industrial activities and services.

Ninety-five per cent of my company's business is for export and for the last 18 months our prices have literally been battered to death by foreign competition. We are only too well aware of the need to reduce unit labour costs, especially in the light of continuing falling sales. Reducing labour unit costs is something which is supposed to be in our own hands but this is further aggravated by trying to reduce costs which are being forced upon us.

For instance, the bills for telephones, postage, heating/lighting, general and water rates keep coming in with no signs of any reduction in their labour unit costs. When will something be done to control the costs of these ridiculous overpriced and inefficient monopolies? Last year, in an effort to reduce costs and dependence on oil, my company changed over to gas—only to discover that this year we are faced with a 54 per cent increase in price for that commodity!

Would Chancellor Howe please tell a complete innocent what else our company must do to remain competitive in price while saddled with these burdens.

Peter W. Mason
Boronet Motor Accessories
126, Moseley Street,
Birmingham.

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COMPANY MEETINGS
See Financial Diary on page 5.
COMPANY RESULTS
Final dividends: Cawdaw Industrial Holdings, Crown House, Initial Services, Siebe Gorman Holdings. Interim dividends: Alexanders Discount, Lambert Howarth Group, London and Lomond Investment Trust, Meggitt Holdings. Interim figures: West Coast and Texas Regional Investment Trust.
LUNCHTIME MUSIC, London. Piano recital by David Riddiss, St. Lawrence Jewry, 1 pm. Organ recital by John Scott, St. Michael's Cornhill, 1 pm. Baroque music for recorders, St. Anne and St. Agnes, 1.10 pm.

OVERSEAS: EEC Foreign Ministers start two-day meeting, Brussels.

HOUSE OF LORDS: Housing Bill report (first day). European Communities (Treaties) supplementary revenue decisions Order.

OFFICIAL STATISTICS: New construction orders for May. June provisional figures for retail sales. Industrial and commercial companies' appropriation account, net acquisition of financial assets and net borrowing requirement (first quarter).

PARLIAMENTARY BUSINESS: House of Commons: Debate on Opposition motion on Government's damaging policies towards

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UK COMPANY NEWS

Woolworth plans for bigger DIY share

F. W. Woolworth is planning to increase its share of the DIY market by more than half over the next five years through the creation of a new specialist division.

The company expects to open at least 25 out-of-town DIY stores and also to expand and modernise the space devoted to DIY in its existing outlets. The extra floor space will be achieved through the conversion of some stock room areas and through hungarous extensions behind certain stores.

In existing stores the space allocated to DIY, which includes lighting and gardening, will be increased by a quarter to around 20 per cent of the total. The proportion will vary greatly from store to store.

The new out-of-town stores should have at least 20,000 square feet of space and some will also include garden centres occupying an additional 10,000 square feet. Woolworth already claims to be by far the largest DIY retailer in the UK, with around 3 per cent of the market.

Comm. Bank of Near East improves

The directors of the Commercial Bank of the Near East say that unaudited results for the six months to June 30, 1980, show an improvement compared to those for the same period last year.

Present indications are, they say, that results for the full year to the end of December, 1980, will show a continuation of this trend.

There was a taxable surplus in 1979 of £257,000, which compared to £266,000 for the previous year.

Cadbury (Aus.) shows increase

Net profits of Cadbury Schweppes Australia rose from A\$3.47m to A\$4m in the first half to June 14, 1980. Turnover went up by 9 per cent to A\$99.94m.

The rate of progress indicated by the half-year results should be maintained in the second half, says Sir Rupert Clarke, the chairman, despite competitive conditions.

The improved first-half figures follow action to improve management control and competitiveness in the confectionery division.

FT Share Information

The following securities have been added to the Share Information Service appearing in the Financial Times:

Colby Resources (Section: Mines—Miscellaneous).

Nichols (J. N.) (Vimto) (Foods).

Strata Oil (Oil and Gas).

Buyers for Fodens to meet with Receivers

BY JOHN GRIFFITHS

RECEIVERS at Fodens, the heavy truck manufacturers, are to hold meetings this week with several potential buyers.

No serious candidate has yet been identified by the receivers, Sir Kenneth Cork and Mr. Philip Livesey, of Cork Gully. The receivers have also indicated that an offer being prepared by Fodens' distributors has little chance of succeeding.

The T. J. Richardson group of Oldbury, Birmingham, whose interests include Fodens' largest Midlands distributorship, held a meeting on Friday at which 12 other Foden distributors pledged their support for an offer proposed by Richardson.

The other distributors would be offered the chance to take up minor shareholdings.

But it is clear that the receivers do not share Richardson's belief that £10m would allow them to buy Fodens' assets and put the company back on its feet.

Fodens' stock was valued at just under £5m when trading in its shares was suspended on Monday. But its assets total, according to the Receivers, about £40m. Thus any company wishing to take over the assets—which as a result of the receivership would be free of Fodens' £35m debts—would be expected to pay considerably closer to their book value than Richardson is prepared to offer.

The receivers indicated yesterday that they expected, instead, to be able to put all the assets into a new company and

then sell them off to someone of substance."

Dodge, the commercial vehicles arm of Talbot, has told shop stewards at the Dunstable trucks plant that short-time working will be introduced after the annual holiday on August 11. About half the 2,400 workforce is likely to be affected. The plant, which makes a range of light and medium trucks, is not expected to lose more than one day's working a week.

Sale agreed for DCM's Burbank Toys

Mr. Paul Shewell, of Coopers and Lybrand, the receiver of the failed Dunlop-Combie-Marx toy group, has started that agreement in principle had been reached for the sale of Burbank Toys of Wellingborough.

This forms part of a trio of companies which former DCM managing director Mr. Richard Beecham is planning to buy, backed by a consortium including UK and overseas banking interests and industrialists.

Burbank manufactures Super, Hero Dolls and related products, pre-school and nursery toys, action toys and talking and non-talking soft toys. The other two companies Mr. Beecham and his associates want to buy are the Pedigree Dolls and Toys subsidiary and Combie, which makes small children's games and toy vehicles.

Earlier this month it was announced that the group's DIY subsidiary Martel Services Group was to be sold to a City consortium including the former management of the business headed by Mr. Basil Feldman, DCM's other joint managing director.

Still to be decided is the future of Hornby, whose products include car racing sets and trains.

Black Arrow held to £0.46m

Taxable profits of the Black Arrow Group, whose interests range from leasing, wholesale and retail distribution of office furniture and equipment to electronic components and electrical appliances, rose slightly to the year to March 31, 1980, from £433,190 to £455,993.

At midyear the surplus was up by 28 per cent to £20,000, against £17,000, and the directors expected full-year figures to show an improvement over 1979-79.

But towards the end of the year general trading conditions were

difficult and against this background Mr. Arnold Edwards, chairman, regards the results as satisfactory.

A final dividend of 1.6p makes 2.5p net, compared to 2.2p.

Turnover for the 12 months came to £6.75m, against £7.20m which included 1974-000 from discontinued operations.

Tax was down to £52,024 (£64,218) and there was an extraordinary credit of £26,000 (£18,486).

Earnings per 50p share before the extraordinary item are shown as 6.16p (5.89p).

Retailed profits showed a rise from £1.35m to £1.62m.

Romney Trust up to £0.7m at halfway

With gross earnings up by £193,000 to £1.34m, Romney Trust, investment company, reports an increase in after tax revenue from £0.51m to £0.7m for the six months to June 30.

Taxation took £390,931 (£287,063). Expenses, interest and preference dividends accounted for £244,686 (£263,140).

The interim dividend is lifted to 1.3p (1p). Last year's total of 4.39p, including a special dividend of 0.69p, was paid on net revenue of £1.28m.

Earnings per 25p share at halfway are given as 2.49p (£1.52p). Net asset value is 133.7p (122.9p).

Market value of Romney's investments at June 30 was £40.5m (£39.92m).

Retailed profits showed a rise from £1.35m to £1.62m.

Robert H. Lowe up but warns on outlook

Taxable profits of clothing manufacturer Robert H. Lowe rose in the six months to May 2 by £71,544 to £303,015 on turnover up from £3.27m to £4.18m.

However, the directors warn that with the forward order position at its lowest for some years as a result of the recession, prospects for the second half are not bright.

It is inevitable, they say, that some short-time working will be necessary within certain units of the group and this in turn will affect profits for the second half.

The directors are endeavouring to pursue new business opportunities and are reluctant to make any forecast for the rest of the year.

After all charges, including tax of £158,000 (£120,500), net profits in the half year were higher at £145,015, against £110,971.

An interim dividend is effectively maintained at 0.685p. A total of 1.512p was paid last time.

Mild winter lifts Francis Parker midway

Trading performance of Francis Parker in the first half of 1980 had been better than expected. Mr. R. K. Francis, chairman, told shareholders at the annual meeting, and had been helped by the mild winter but hampered by a wet second quarter.

He warned, however, that high interest charges had used up a disproportionate part of the improved results. The recent 1 per cent reduction in interest rates would have only a marginal effect for the rest of the year.

Demand for raw materials was reducing, although the group was receiving more than its fair share of the available business, and order books for the block-making and pre-cast flooring companies were satisfactory.

Last year, pre-tax profits were up from £790,000 to £959,000.

Sheffield Refreshment bounces back

Despite the directors' cautious outlook at midyear when taxable profits fell from £86,420 to £75,186, Sheffield Refreshment Houses bounced back in the second six months.

For the year to March 31, 1980, there was a taxable surplus of £250,688 (£219,571) on turnover up from £1.3m to £1.42m.

A final dividend of 1.62p makes a net total of 2.32p, against 2.29p.

Tax charged rose to £139,796 (£16,426) leaving earnings per 25p share of 6.77p (6.35p).

The company operates as an hotelier, restaurateur and banqueting specialist.

SPAIN

	July 18	Price
High	203	Banco Bilbao
Low	217	Banco Central
	208	Banco Exterior
	200	Banco Espanol
	177	Banco Ind. Car.
	117	Banco Madrid
	175	Banco Santander
	190	Banco Urquiza
	203	Banco Vizcaya
	219	Banco Zaragoza
	106	Diagonal
	62	Espanola Zinc
	58	Fecsa
	50.5	Industria Preciosas
	71.2	Iberdrola
	68.2	Iberduero
	129	Petrolens
	15	Petroler
	63	Telcel
	67.5	Union Elect.

All enquiries should be addressed to:

Financial Times Limited

Conference Organisation

Minster House, Arthur Street

London EC4R 9AX

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS

Date	Title	Venue
Current	Royal Tournament (01-930 6009) (Until July 26)	Earls Court
Current	Gift Fair (0852 567153) (until July 24)	Exhibition Centre, Harrogate
July 22-24	Microcomputer Show (0852 59262)	Wembley Conference Centre
Aug. 1-4	Scottish Furniture Trades Exhibition (041 649 1954)	Hall, Glasgow
Aug. 3-7	International Gifts Fair (01-855 9201)	Olympia
Aug. 13-15	Computer Graphics Exhibition (0274 25211)	Metropole Hotel, Brighton
Aug. 14-25	Ideal Home and Leisure Exhibition (0202 20327)	Newcastle University
Aug. 17-23	British Musical Instruments Trade Fair (01-855 9201)	Olympia
Aug. 17-20	The Piano and Electronic Organ Trade Fair (01-228 1590)	The Connaught Rooms, London WC2
Aug. 20-23	Ideal Home and Trade Exhibition (06333 64538)	Leisure Centre, Pontypool
Aug. 20-25	Modern Homes Exhibition (0283 54576)	Guildford, Preston
Aug. 23-25	Trade and Entertainments Exhibition (0689 36431)	Most Park, Maidstone
Aug. 23-30	International Motor Cycle Exhibition (0203 24727)	Earls Court
Aug. 31-Sept. 4	Giftware and Fashion Accessories Trade Fair (0853 4971)	Bristol Exhibition Centre
Aug. 31-Sept. 4	International Watch, Jewellery and Silver Trades Fair (01-337 3336)	Earls Court

OVERSEAS TRADE FAIRS AND EXHIBITIONS

Current	Overseas Trade Fairs and Exhibitions	Hamburg
July 26-Aug. 3	International Photogrammetry Trade Exhibition (until July 24)	Dorothy
Aug. 8-17	Trade Fair (02013 4450)	Hamburg
Aug. 10-14	Modern Family Exhibition (02013 4450)	Chicago
Aug. 11-17	National Hardware Show	Ohio
Aug. 18-Sept. 4	International Fisheries Fair	Budapest
Aug. 20-Sept. 30	International Exhibition of Agriculture and Food Industry—OEMC	Imlir
Aug. 22-24	International Fair	Wellington, New Zealand
Aug. 23-27	World Woodworking Exposition	Atlanta
Aug. 28-29	Offshore North Sea Technological Conference and Exhibition	Stavanger
Aug. 30-Sept. 3	International Bridges and Structural Engineering Exhibition	Vienna
Sept. 4-9	International Jewellery, Gold, Silver, Clocks and Gifts Exhibition	Paris
Sept. 12-21	International Autumn Fair (01-486 1951)	Zagreb
Sept. 18-Sept. 23	International Exhibition for Automobile, Motor Car Workshop, Service Station and Garage Equipment—AUTOMECHANICA (01-734 0343)	Frankfurt

BUSINESS AND MANAGEMENT CONFERENCES

| Current | Business and Management Conferences | The City University |
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INTERNATIONAL BONDS

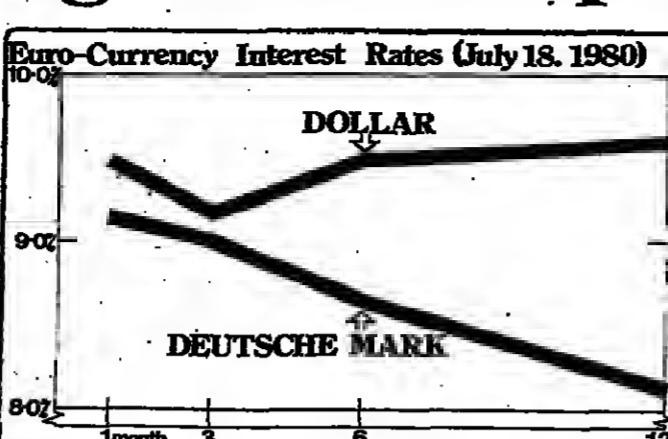
A flat feeling after the party

THE 1980 bond party is over. Investors appear to have deserted the secondary market for their holidays and only desultory activity continues in new issues.

Prices of fixed-interest dollar bonds drifted down by about 1 per cent last week, as the absence of any lead from New York. The U.S. dollar strengthened a little against major currencies despite a slight easing in Eurodollar rates. The three-month rate shed 1/4 per cent to end the week at 9.1%.

New issue activity continues, however, both in the dollar and the D-Mark sectors. In the first two new floating rate note issues were launched, the \$200m issue for Barclays Bank International (BBL), being the largest Eurobond for a UK borrower. The 17 other banks, together with BBL, which are managing the issue, include a string of London merchant banks and two of the big three Swiss banks—Swiss Bank Corporation and Union Bank of Switzerland.

A notable absentee is Credit Suisse First Boston, which was included in the management group of the last FRN issue for



sible to place paper, at any price. MEPC suffered the ignominy in December 1974 of seeing its 7½ per cent bonds to 1987 trade at less than half their face value."

It can be argued, the telex adds, "that the 1974 prices were only typical of the prevailing hysteria at that time." Certainly the UK institutions which bought heavily before the turnaround are, in some cases, sitting on book profits which exceed

100 per cent which is very fine for this prolific borrower.

Honeywell came to the D-Mark sector for the first time with New Zealand arranging a placement which, in effect, was a refinancing exercise. A DM 200m issue for Chile, the second ever for the republic, met with a muted response.

Domestic investors are buying foreign D-Mark bonds both because they can obtain a higher return than on domestic paper and because of a widely expected fall in D-Mark interest rates later this year.

In the Swiss franc sector, a steady flow of new issues continues with little evidence of much trading in seasoned issues. The next borrower is expected to be the Republic of Finland.

The French car company Peugeot is meanwhile tapping the sterling sector for a £22m bond issue through S.G. Warburg. This is the company's second foray into the Eurobond market—it arranged a Eurofranc franc issue last year—and the funds are being used to help repay loans extended by the UK Department of Industry in 1976 to Talbot UK, formerly Chrysler UK.

CREDITS

Yugoslavia chases Arab money

THE National Bank of Yugoslavia is understood to have launched its large borrowing programme with a \$250m credit being managed by Knafel Foreign Trade Contracting and Investment Company. Terms have been set at eight years with three grace and a 11 per cent margin.

This is the same margin as that set in June on a \$107m club deal for three Yugoslav banks under the leadership of Citicorp, although the maturity of the National Bank credit is a year longer.

Bankers in London believe that the National Bank had intended to try to raise the whole \$250m from Arab banks, but that the amount turned out to be too large for a restricted syndication. The credit is still expected to bear a strongly Arab flavour but international banks have been asked to participate as well.

In terms of strategy this could turn out to be a somewhat

unfortunate move for Yugoslavia. Central Bankers meeting in Basle earlier this month reported that they had been asked by Yugoslavia to help negotiate loans from commercial banks in excess of \$2bn to help finance the country's deteriorating balance of payments deficit.

This means that Yugoslavia will have to tap Western banks under the leadership of Citicorp, although the maturity of the National Bank credit is a year longer.

Bankers in London believe that the National Bank had intended to try to raise the whole \$250m from Arab banks, but that the amount turned out to be too large for a restricted syndication. The credit is still expected to bear a strongly Arab flavour but international banks have been asked to participate as well.

Among other deals it looked at the end of last week as though the jumbo credit for Venezuela would be raised

substantially from the \$1.2bn originally targeted. The credit is believed to have attracted some \$1bn from the market on the basis of its split 14 spread over seven years.

The absolute limit for any increase would be \$1.8bn, this is the total extent of congressional authorisation for long-term Venezuelan borrowing.

A final decision on the amount will be taken at a managers' meeting in London this Wednesday.

The response to the credit is especially satisfying for Venezuela in view of problems reported recently by many banks over the poor repayment performance by Venezuelan state agencies on their substantial short-term debt.

The problems reached the stage where Sr. Hernan Oyarzabal, Venezuela's Director of Public Credit, paid a special visit to Europe 10 days ago to reassure banks that action was being taken to ensure prompt

servicing of the debt. The jumbo loan should help in this as its purpose is to consolidate some of the debt with a maturity of up to two years incurred by the agencias.

servicing of the debt. The jumbo loan should help in this as its purpose is to consolidate some of the debt with a maturity of up to two years incurred by the agencias.

Brazil's telecommunications agency, Telesbras, is now studying an offer for a \$150m credit from five major banks: Bank of America, Canadian Imperial

Bank of Commerce Credit Lyonnais, Skandinaviska Enskilda and Sumitomo Bank. The offer provides for an eight-year credit with a spread of 1½ per cent and four years grace.

Although no mandate has yet been formally awarded, the credit is almost certain to emerge on the terms outlined above. The spread is identical to that on Brazil's last major syndication for Elektrobras, which was raised to \$410m from an initial target of \$300m.

As a further indication of the interest being shown in prime quality European borrowings,

the amount of the Electricite de France 10-year credit has been increased to \$800m from \$500m. This is a club credit over 10 years with a margin of 0.35 per cent for the first five years rising to 0.45 per cent thereafter. It was possible to increase the amount even despite the very low spreads and the complete absence of Japanese institutions from the deal. The latter were denied permission to participate by the Japanese Ministry of Finance because of the standby element to the loan.

Authorisation to participate in standby credits is not normally forthcoming.

Another operation expected to attract fine terms is a \$200m borrowing by Ireland's Industrial Credit Company. The mandate had not been formally awarded by the end of last week, but the deal is already being followed closely because of Ireland's high status as a credit risk.

U.S. BONDS

BY DAVID LASCELLES

Fed keeps the market on tenter-hooks

THE MARKET was nervous last week, trying to figure out whether the Federal Reserve had changed its position on interest rates (it thought probably not, but nobody could be sure). There was also growing concern that the US economy may be pulling out of a recession before deflation has had its full impact. If so, there is a strong chance that inflation will pick up again, and interest rates too.

Bonds put on their best performance on Wednesday, when

it appeared that the Fed had eased its target for the key fed funds rate by 1 per cent to an 8.5 per cent range. The evidence for this—in the form of a Fed intervention in the money markets when rates were rising—not was conclusive, but bond prices shot up all the same.

By the end of the week, though, it was still not clear what the Fed was up to. Some analysts maintained that the central bank had moved to accommodate a market in which interest rates were heading down again anyway, but that it had done so in a deliberately muted way, so as to limit the impact on the dollar. Others were less convinced. The market itself ended up feeling neutral; bonds lost some of their gains but closed the week without much sense of direction.

Some clarification of where the Fed stands could come on Tuesday when Mr. Paul Volcker, the Federal Reserve chairman, is to testify in Congress on current credit policy. Among other things, he could indicate the Fed's targets for money supply growth and interest rates.

The market was also unsettled by mounting evidence of a turnaround in demand. The latest industrial production and gross national product figures continue to show an economy in decline. But housing, retail sales and car sales have all picked up in recent weeks—particularly in the case of housing, where the sales and starts are up by 30 per cent or more. Since these areas all led the economy into recession, it is a fair bet that they will lead it out again.

FT INTERNATIONAL BOND SERVICE

U.S. DOLLAR									
	Issued	Bid	Offer	day	week	Yield	Change on	day	week
STRAIGHTS									
Aust. Australis 10.85	50	92%	93%	0	—	11.65			
Btr. Bryson F. 10.20	50	92%	93%	0	—	11.77			
CECA Grad. Ratia 12.85	100	92%	93%	0	—	11.77			
CECA 11.50	50	92%	93%	0	—	11.43			
CECA 11.50	100	100%	100%	0	—	11.43			
Cibcon 11.50	100	92%	93%	0	—	11.75			
Cibcon 11.50 D/S 10.85	50	92%	93%	0	—	11.75			
Dansk 11.50	100	92%	93%	0	—	11.91			
Dansk 11.50	50	103%	104%	0	—	12.50			
ECC 11.50	75	95%	96%	0	—	11.55			
ECC 11.50	100	95%	96%	0	—	11.55			
Exports 11.50	100	92%	93%	0	—	12.24			
Exports 11.50	50	92%	93%	0	—	12.24			
Exports 11.50	100	92%	93%	0	—	11.01			
Eloc. d' France 10.85	125	92%	93%	0	—	10.75			
Export Inv. Com. 9.50	150	92%	93%	0	—	10.75			
Export Inv. Com. 9.50	50	92%	93%	0	—	10.75			
Export Inv. Com. 9.50	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	50	92%	93%	0	—	10.75			
Federal Dev. Corp. 10.85	100	92%							

Companies and Markets

WORLD STOCK MARKETS

NEW YORK

	1980				1980				1980				1980			
	High	Low	Stock	July 12	High	Low	Stock	July 12	High	Low	Stock	July 12	High	Low	Stock	July 12
1980	High	Low	Stock	July 12	High	Low	Stock	July 12	High	Low	Stock	July 12	High	Low	Stock	July 12
1880	87	81	ACF Industries	38.3	86	85	Columbia Gas	39.8	82	81	Gt. Atl. Pac. Tel.	5	83	82	Mesa Petroleum	43%
1880	115	105	AMF	16	131	118	Combusit. Int.	20.1	97	92	Gt. Basin Pet.	13.4	94	93	Schiltz Brew J.	7%
1880	142	134	AM Int'l	16	134	126	Combined Int.	20.1	97	92	Gt. Hiltch. Nakos	64.4	75	74	Schenkensperger	12%
1880	155	145	AMR Corp.	16	126	126	Combust. Equp.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	SCM	15%
1880	171	157	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Scott Paper	18%
1880	182	171	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Scudder Duo V.	11%
1880	195	174	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Sea Coms	26%
1880	204	184	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Seaboard Corp.	25%
1880	214	194	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Seasam	65%
1880	224	204	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Sextel Power	21%
1880	234	214	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	244	224	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	254	234	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	264	244	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	274	254	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	284	264	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	294	274	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	304	284	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	314	294	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	324	304	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	334	314	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	344	324	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	354	334	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	364	344	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	374	354	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	384	364	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	394	374	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	404	384	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	414	394	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	424	404	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	434	414	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	444	424	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	454	434	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	464	444	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	474	454	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	484	464	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	494	474	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	504	484	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	514	494	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	524	504	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	534	514	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	544	524	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	554	534	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	564	544	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	574	554	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	584	564	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	594	574	AMT	16	126	126	Combusit. Int.	20.1	97	92	Gt. Wm. Jones	42.4	52	51	Searle (D.C.)	18%
1880	604	584	AMT	16	126	126	Combusit. Int.	20.1</td								

CONTRACTS AND TENDERS

SOCIALIST PEOPLES LIBYAN ARAB JAMAHIRIYA
SECRETARIAT OF LIGHT INDUSTRIES, POST BOX NO: 4388 TRIPOLI/SPLA
CABLE TASNLIBYA

PUBLIC TENDER

FOR PUBLIC TENDER NO: 1/80 FOR THE ESTABLISHMENT OF ONE ULTRA-MODERN FULLY AUTOMATIC PLANT FOR THE PRODUCTION OF INDUSTRIAL AND MEDICAL ALCOHOL, VINEGAR AND DRY BAKERY YEAST AT EL KHOMS / SPLA

The Tenders Commission of the Secretariat of Light Industries invites Public Tenders for the establishment of one ULTRA-MODERN fully automatic Plant for the production of Industrial and Medical ALCOHOL, VINEGAR AND DRY BAKERY YEAST at EL KHOMS / SPLA, in which specialised International companies with previous experience in the establishment of such works are invited to participate in accordance with the following conditions:

- The General Conditions booklet, the technical specifications and Tender Documents to be drawn from the Secretariat of Tenders Commission of the Secretariat of Light Industries, at its offices at Al Fatah St. during official working hours against a cost of (L.O. 100) One hundred Libyan Dinars non-refundable.
- Tenders shall be submitted on Tender Documents prepared by the Secretariat indicated in item (1) of this notice signed by the participants and shall be delivered in closed envelope sealed by seal wax which in turn shall be placed in another wax sealed envelope. The name and address of the Secretariat of Light Industries and the number of this Tender shall be written on the inner envelopes with an indication that they contain a Tender for the establishment of One ultra-modern fully automatic plant for the production of Industrial and Medical Alcohol, Vinegar and Dry Bakery Yeast at El Khoms.
- It shall be sent by registered mail, postage prepaid or shall be delivered by hand to the Secretariat of the Tenders Commission of the Secretariat at Al Fatah St. (El Saat), Tripoli/Spli, in the Secretariat's offices during official working hours. Such delivery shall be against a receipt to contain the name of Tenderer, and date and hour of delivery. However, in all cases, the Tenders shall be delivered not later than 12 o'clock noon of 1/10/1980.
- The Tenderer shall enclose in his Tender his previous experience in executing similar work and shall support such data by sufficient instruments and documents which should be attached to his Tender. Furthermore, he shall attach to his Tender all instruments, documents and licences permitting him to perform such work.
- The Tender shall remain valid and binding to the Tenderer who may not withdraw it, as from date of its delivery by Tenderer and for a period of (120) one hundred and twenty days, which shall be calculated as from the last date indicated for acceptance of Tenders (opening of envelopes date), indicated in item (2) of this notice.
- The Tenderer shall attach to the documents of his Tender a provisional guarantee amounting to not less than 2% (two percent) of the total cost of the Tender. Tenders not accompanied by a full provisional guarantee shall not be considered. Such guarantee shall not be considered. Such guarantee shall be either in cash paid to the Secretariat treasury or by an accepted cheque certified by the issuing Bank or by a letter of guarantee issued by a Local Bank. The said letter of guarantee shall not be subject to any reservation or condition and shall contain a stipulation as to its being irrevocable and that it is payable at the Tenderer's first demand irrespective of any contestation by the body who delivered it or any third party.
- The duration of effectiveness and validity of the said letter of guarantee shall continue for at least thirty days following the expiry of the period defined for the effectiveness of the Tender by which the Tenderer is bound.
- The successful Tenderer shall deposit in the Secretariat's treasury within a period not exceeding (20) twenty days as from the date of notifying him of acceptance of his Tender, a final guarantee equivalent to 10% (ten percent) of the total cost for which the Contract is adjudicated.
- This guarantee shall be submitted in the same mode and procedures adopted for the provisional guarantee and in the manner defined in the General Conditions of this Tender.
- Tenderers or their officially authorized representatives, may attend the envelope opening session to hear reading of prices.
- The provisions of the purchasing and contracting work regulation in use by the Secretariat shall apply to this Tender and to the Contract to be concluded with the Tenderer, for whom the Tender adjudicated and with whom it shall be decided to conclude a Contract.
- Tenders arriving after the defined time for opening of envelopes indicated in item (2) of this notice or which is not accompanied by a full guarantee fulfilling legal requirements shall not be considered.
- The Secretariat has the right, according to its absolute discretion, to accept or reject any tender without indicating reasons.

TENDER COMMISSION
SECRETARIAT OF LIGHT INDUSTRIES

PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN

Prequalification to Tender for Completion of the Construction of Al-Mukalla Harbour

The Port of Aden Authority of the People's Democratic Republic of Yemen invites experienced contractors to apply to be qualified to submit Tenders for the completion of construction and maintenance of Al-Mukalla Harbour. The works have been partially completed (about 25 per cent) by a contractor (now in liquidation) and taking over existing work (both permanent and temporary), equipment and materials will form part of the contract.

The whole of the works comprises, but is not necessarily limited to, the following:

-Taking over permanent and temporary works, equipment and materials provided by a contractor (now in liquidation) the legal ownership of which is entirely vested in the employer.

-Completion of the wave protection works of the harbour; two quay walls for the berthing of general cargo ships of up to 10,000 d.w.t., one 175 m. long and 10 m. depth of water, known as Berth No. 1, and the other 170 m. long and 10 m. depth of water, known as Berth No. 2; a shallow water quay 155 m. long for berthing fishing vessels up to 200 tonnes capacity, known as Fishing Quay; related dredging of quay wall trenches and the harbour basin; reclamation of the on-shore areas behind Berth No. 2 and the Fishing Quay; and outlets and ducts for various services to quays. In addition to the above the employer invites contractors to include in their Tenders for certain optional works identified in the Tender Documents.

-The works described are a part of the overall harbour works being or to be executed by others consequently time is of essence.

-Completion is required as follows:

Section 1.— 194 days—Fishing Quay and other related works.

Section 2.— 318 days—Civil works to area of fishmeal plant, waste water pump station, storage tanks and weighbridge (provisional works).

Completion—636 days—Total harbour works.

Contractors interested in submitting Tenders are invited to collect the Documentation for Prequalification from the offices of:

Yemen Ports Authority, Aden, People's Democratic Republic of Yemen, or Dar Al-Handasah Consultants (Shair and Partners) UK Ltd.
91 New Cavendish Street, London, W1, United Kingdom
Telex: 27187 Darsah G Telephone: 01-637 8622

and return it in two copies, one to each of the above addresses, duly completed and signed not later than 30th August, 1980. Only contractors who have been qualified will receive an invitation to Tender.

NIGERIAN PORTS AUTHORITY

TENDER FOR THE PURCHASE OF

- (1) Pilot Cutters
- (2) Harbour Launches
- (3) Mooring Launches

EXTENSION OF CLOSING DATE

The closing date for the submission of tenders for the purchase of PILOT CUTTERS, HARBOUR LAUNCHES and MOORING LAUNCHES is hereby extended from July 15 1980, to August 1, 1980.

This tender was previously published as NPA Notice No. 3238 dated May 20, 1980.

J. E. KALU

Secretary to the Authority

NPA Notice No. 3245

Dated 14th July, 1980

THE NIGERIAN PETROLEUM REFINING COMPANY LIMITED PORT HARCOURT, NIGERIA

The Nigerian Petroleum Refining Company Limited, Port Harcourt, Nigeria intends to carry out the refinery biennial overhaul in February 1981. Maintenance work will be scheduled for a maximum of 30 days depending on the final work-load.

The jobs to be done include:

1. Repair to flash zone and associated trays of 15ft. diameter fractionating column.
2. Plant and pipe-line modifications.
3. Repair to vessels.

THE SECRETARY,
NIGERIAN PETROLEUM REFINING COMPANY LIMITED,
P.O.BOX 585, PORT HARCOURT, RIVERS STATE,
NIGERIA. TELEX 61165.

4. Heater brickwork.
5. Heat exchanger tube bundle pulling, cleaning and refitting.

The Company will provide all materials and spare parts required, but the Contractor will be expected to provide all necessary machines, equipment and tools he requires for a successful execution of the work. Interested Contractors are invited to apply for the tender documents before 15th August 1980, either by writing to or by telexing:

SUDAN RAILWAYS STORES DEPARTMENT

Contract No. 5251
SUPPLY OF ONE HEAVY DUTY HYDRAULIC PRESS FOR PESSING WHEELS ON AXLES

Contract No. 5252
SUPPLY OF 2 (TWO) TYRE BORING MACHINES

Contract No. 5253
SUPPLY OF ONE GIBSON RING ROLLING MACHINE

NOTICE

- (1) Controller of Stores, Sudan Railways, Artesia, invites tenders for the supply of one heavy duty hydraulic press for pressing wheels on axles; 2 (two) tyre boring machine and one Gibson ring rolling machine.
- (2) Tenders should quote for each tender separately and each tender should be in a separate envelope.
- (3) Details and specification for each tender can be obtained from the Office of Controller of Stores, P.O. Box 65, Artesia, or from the Stores representative, Khartoum, tel: 74793 on submitting a written application bearing 50 piastres stamp duty and payment of £25.00 for one copy of details and specification for Contract No. 5251, £52.500 for one copy of details and specification for Contract No. 5252 and £32.500 for one copy of details, specification and drawings for contract No. 5253.
- (4) The closing date fixed for acceptance of tenders in this Office is Tuesday, 28th August 1980, at 12:00 hours noon.

OFFICE OF CONTROLLER OF STORES
SAAD/MMA

SUDAN RAILWAYS STORES DEPARTMENT

Contract No. 5254
SUPPLY OF 3 (THREE) 5 TONS ELECTRIC OVERHEAD CRANES

Contract No. 5255
SUPPLY OF 4 (FOUR) 10 TONS ELECTRIC OVERHEAD CRANES

Contract No. 5257
SUPPLY OF 2 (TWO) 20 TONS ELECTRIC OVERHEAD CRANES

NOTICE

- (1) Controller of Stores, Sudan Railways, Artesia, invites tenders for the supply of 3 (three) 5 tons electric overhead cranes, 4 (four) 10 tons electric overhead cranes and 2 (two) 20 tons electric overhead cranes.
- (2) Tenders should quote for each tender separately and each tender should be in a separate envelope.
- (3) Details and specification for each tender can be obtained from the Office of Controller of Stores, P.O. Box 65, Artesia, or from the Stores representative, Khartoum, tel: 74793 on submitting a written application bearing 50 piastres stamp duty and payment of £25.00, for one copy of details and specification for Contract No. 5254, £52.500 for one copy of details, specification and drawings for each contract.
- (4) The closing date fixed for acceptance of tenders in this Office is Saturday, 25th August, 1980, at 12:00 hours noon.

OFFICE OF CONTROLLER OF STORES
SAAD/MMA

INVITATION TO TENDER SAUDI ARABIAN KINGDOM

A Saudi National Corporation invites FOREIGN INTERNATIONAL COMPANIES to submit their OFFERS at an earliest convenience, in respect of the following ITEMS supported with all statements and catalogues.

- 1) MARBLE FACTORY — Cutting & Polishing.
- 2) AUTOMATIC PLANT for Mosaic Tiles.
- 3) CEMENT BLOCKS FACTORY — Different shapes.
- 4) ELECTRIC POWERFUL GENERATORS — To run the above FACTORIES with special consideration of future expansion.

What is required for the above items is submission of offers along with office and residence compounds.

INFORMATION REQUIRED:

- 1) Production capacity of each factory.
- 2) Name of factory Producer — brief literature as far as experience and reputation are concerned.
- 3) OFFERS should include cost of factory (delivered at site with installation).
- 4) Special offer to be submitted in respect of all FACTORIES maintenance.
- 5) Separate offer for running the said factories (technically & administratively) with a statement of number & qualities of manpower required for each plant.

OFFERS should be sent to the following address:-
P.O. BOX 484
ABHA — Southern Region
SAUDI ARABIAN KINGDOM
TEL: 224 6277, 224 6306
TLX: 901019 SJ

"INTEREXPORT" OOUR Metali, oprema i inzenjerije, 11000 Belgrade, Yugoslavia, Kolarceva 8, has pleasure in advising its customers:

NAFTAGAS—NAFTNA INSTRUJJA SOUR—NOVI SAO NAFTAGAS—RADNA ORGANIZACIJA TRANSPORTA, PRERADE, PRIMENE I PROMETA GAS- A, NOVI SAO, NARODNOG FRONTA 53,

of the following:
INTERNATIONAL INVITATION TO TENDER TO SUPPLY EQUIPMENT FOR GAS PIPELINES

The industrial organisation HAFTACAS—"GAS"—Novi Sad, was given a loan in various currencies corresponding to US\$59.4 million by the International Bank for Reconstruction and Development to cover the cost of the project known as the "Naftagas gas pipeline project" for the construction, distribution and transport of natural gas in Yugoslavia. This loan is provided for the purpose resulting from the contract(s), for which this invitation to tender in open competition is published.

Companies and organisations, who have the qualifications, experience and reputation enabling them to supply the following material, cit Yugoslavian gas or gas from Yugoslav border, are requested to submit tenders in this open competition for:

- (a) Pipes of 1" to 28" ca, 430 km at 25,000 tons.
- (b) Valves at 1" to 28" ca.
- (c) Piping fittings of 1" to 28" ca.
- (d) Equipment for gas pipeline from 2" to 24".
- (e) Main measuring and control stations and consumer measuring and control stations.

The funds provided by the loan are to be used for corresponding payments ensuing from the contract, which are signed as a result of this invitation to tender.

Suppliers of equipment from member countries of the International Bank for Reconstruction and Development, with a good business reputation and with at least 5 years' experience in the production and supply of this equipment, who are able to provide guarantees from well known banks or insurance companies, are requested to submit offers for items of equipment, which are the subject of the following tenders:

Number and Description of the tender

Price of the tender in US\$

1. Tender for pipes YU-916-IT-12.0019 1,500
2. Tender for valves YU-916-IT-12.0020 750
3. Tender for fittings YU-916-IT-12.0021 500
4. Tender for valves YU-916-IT-12.0022 500
5. Tender for GMRS and MHSF-YU-916-IT-12.0023 1,000
6. Tender for insulating material YU-916-IT-12.0024 500

The tender documents for the International invitation to render can be obtained from:

HAFTACAS—GAS—RZ za invezicije
Novi Sad, Yugoslavia

on making the corresponding payment.

The tenders documents are to be made out to Account No. 65700-620-219-2077/1111/2283 at the Vojvodina banka, Novi Sad, endorsed as follows: for the purchase of tender documents.

Those wishing to submit a tender from Yugoslavia can obtain the above tenders documents by sending the corresponding payments in dinar, which are to be made out to our account No. 65700-607-000-825 or SOK—Novi Sad branch.

The payments will not be refunded.

The tender documents can be obtained during working hours from 9:00 to 12:00 hours.

The tender documents are to be submitted on or before 20.9.1980.

The option to supply must be less than 6 months from the date on which the tender is submitted.

Any tender document must be sent to the Office of Controller of Stores, P.O. Box 65, Artesia, or to the Stores representative, Khartoum, tel: 74793 or Belgrade or "Butanex", RO 28.

Please send tenders to the following address: "INTEREXPORT," OOUR Metali, oprema i inzenjerije, 11000 Belgrade, Kolarceva 8, telephone number 629-322.

YEMEN ARAB REPUBLIC YEMEN GENERAL ELECTRICITY CORPORATION AL MUKHA POWER STATION

In September, 1980, tenders will be invited from major manufacturers for the design, supply and construction of a 150 MW oil and gas fired power station, to be built near the port of Al Mukha in the Yemen Arab Republic. Boiler/turbine generator units will be in the size range 30/40 MW. The contract will be placed on a complete turnkey basis, inclusive of all Civil Works. Tenderers will be asked to offer proposals for financing the project.

Pre-qualification of all Tenderers is a mandatory requirement. Any contractor who is interested in bidding for the above project and who can demonstrate proven ability and experience in the supply, installation and operation of a modern thermal power station in the size range similar to the under consideration, should apply, in writing, to Kennedy and Oonkin, Consulting Engineers, Chatsworth House, 19, Lever Street, Manchester, M1 3LT, England, quoting reference YEM 058, not later than Monday, 11th August, 1980, for the pre-qualification questionnaire.

CONTRACTS AND TENDERS

appears every Monday

Rate: £19 per single column centimetre
(minimum three centimetres)

Memorex goes into the red

SOUTH AFRICAN STEEL Dunswart picks up pace

BY JIM JONES IN JOHANNESBURG

MEMOREX CORPORATION, the U.S. computer equipment maker, reports a loss of \$21.7m or \$3.11 a share for the second quarter of 1980, compared with a net profit of \$10.6m or \$1.32 a share in the same period last year. Turnover was \$165.7m, against \$181.3m.

The company's loss for the first six months was \$20.6m compared with net earnings of \$22.3m or \$2.59 a share in the same period of 1979. Sales in the first half rose to \$370.6m from \$359.2m.

Memorex said that in connection with decisions to phase out certain older products it established second quarter reserves of about \$6m for expected write-downs of potentially excess inventory and related assets and for expected operating losses.

Additional inventory reserves of \$3.5m were also established for adjustments of inventories in excess of established requirements, which are partially offset by a reduction in reserve requirements based on the recent results of physical inventory.

Setback for Borg Warner Australia

By Our Sydney Correspondent

RISING manufacturing costs and consolidation of earnings combined to reduce the earnings of the automotive parts maker, Borg Warner (Australia) in the June half-year. Profits of the group fell 2.3 per cent from A\$3.7m to A\$3.6m (\$US4.25m), despite a 19 per cent sales increase to A\$3.55m (\$US5.99m).

The interim dividend, however, has been raised from 9 cents a share to 10 cents. The directors said that rising costs and the incorporation of the iron foundry into one plant had affected results.

DUNSWART, THE once troubled South African iron and steel producer, is making a fast recovery, helped by strong domestic demand for steel. For the six months to June 30, the company reports an operating profit of R5.11m (US\$8.57m), compared with R3.19m for the corresponding period of last year and with R8.61m for the whole of 1979.

While the directors do not put a figure on expected second

that the improvement will continue. The advance will be helped by a 14 per cent controlled domestic steel price increase granted on June 20.

Before a management reorganisation inaugurated a couple of years ago by the 46.6 per cent controlling shareholder, General Mining, Dunswart's plant had not been replaced to time. This adversely affected operations and earnings, and has necessitated a significant infusion of additional capital.

However, that renewal programme is now nearing completion and the management has concentrated on raising melt shop production to an annual 380,000 tonnes, allowing a sales increase to 243,000 tonnes of rolled sections and 20,000 tonnes of rolled billets.

The company has resumed

payment of interim dividends

and has declared an interim of 5 cents from first-half earnings of 39.6 cents per share. In 1979, a dividend of 10 cents was paid.

Mareeba discloses White deals

BY JAMES FORTH IN SYDNEY

MAREEBA MINING has disclosed that it purchased slightly more than 10 per cent of the capital of White Industries, the New South Wales Group, in a three-way share market contest earlier this year which saw the price of White shares spiral from A\$5 to more than A\$30 (US\$3.51). Mareeba in March had admitted to buying White shares, and had also said that it held 5.6 per cent of White's capital.

The difference of 4.67 per

cent, or 440,024 White shares comes about because Mareeba sold the shares to the Japanese group Mitsubishi Development four days after it acquired them. At the time, Mitsubishi was known to be buying White shares at prices up to A\$30 a share. But Mareeba sold the shares at its average purchase price of almost A\$17 for the parcel. The disclosure means that Mareeba for a short period held slightly more than 10 per cent of White's capital.

White Holdings, the company formed by the White family, is offering AS20 a share and Endeavour Resources, a member of the group headed by Mr. Alan Bond, is offering AS21 a share, valuing White at almost A\$200m (US\$230m). Mareeba would make a profit of between A\$2.3m and A\$3.1m if it sold. The directors of White Industries have issued their part B statement on the Endeavour bid, and said they had decided to make no recommendation.

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INDUSTRIALS—Continued

INSURANCE—Continued

PROPERTY—Continued

INVESTMENT TRUSTS—Continued

FINANCE, LAND—Continued

CTL 
The British computer systems and software company
Telephone Hemel Hempstead 0442 3272

MINES—Continued

Australian

Holdings	Fund	Stock	Price	Last	No.	Cw	Y.M.	P.E.
October		H.M.S. Ind. 12p	37	38.0	1.0	1.7	12.0	7.1
June		Hynes H. Sp. 1p	29	29.0	1.0	1.7	12.0	7.1
Mar.		Paragon Ind. 15	29	28.4	1.0	1.7	12.5	6.6
June		Park Place Inv. 10p	24	24.0	1.0	3.8	5.8	6.0
Mar.		Pearson S. & Son 20p	24	24.0	1.0	3.8	5.8	6.0
July		Nex. Corp. & Mkt. 14p	14	14.2	1.0	1.7	6.4	5.0
Oct.		New Min. Pig. P. 1p	33	33.7	1.0	1.7	12.5	5.0
Dec.		North East Gas 10p	26	26.0	1.0	1.7	12.5	5.0
July		North East Gas 10p	26	26.0	1.0	1.7	12.5	5.0
Nov.		North East Gas 10p	26	26.0	1.0	1.7	12.5	5.0
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FINANCIAL TIMES

Monday July 21 1980



Economy worry on Greek EEC entry

BY DAVID TONGE IN ATHENS

TWO REPORTS on Greece being completed by international organisations paint a sombre picture of the economy which will join the EEC in six months.

After years of growth higher than the Western average, and of low unemployment, Greece faces stagnation and a rising number of jobless, according to the Organisation for Economic Co-operation and Development, the grouping of 23 industrialised nations in Paris.

"Gross domestic product is expected to stagnate in 1980, with the year-on-year rate of inflation increasing a little to around 25 per cent, while due to the rise in oil prices the current balance-of-payments deficit may widen to \$2.5bn," the OECD writes.

It makes clear that other factors apart from oil were responsible for deterioration on current account. "The current external deficit has become a constraint which threatens, unless the necessary structural changes take place, to reduce substantially Greece's medium-

to-longer-run potential growth rate."

The report warns that Greece cannot respond to the challenges of entry to the EEC next year unless she tackles this deficit and gives urgent priority to increasing investment.

The second report, by the International Monetary Fund, states that the Greek Government has been "less effective than intended" at implementing policies aimed to tackle these problems.

It describes the Greek public-sector borrowing requirement as high and criticises the Government for putting the main burden of credit restraint on the private sector. It calls for gradual abolition of the numerous administrative controls on the banking sector.

"In the longer run, we would expect that a free interest rate structure would be an important component in making the banking system more competitive and efficient."

The IMF report was prepared by a team which visited Athens

for the regular annual consultations between the Fund and the Greek Government; Greek officials expect only minor amendments in the text given them.

The OECD report is more questioning and comprehensive. It was drafted earlier this month, and virtually completed at a meeting last Thursday and Friday in Paris between Greece and OECD officials.

The report says that in 1979 agricultural output fell by 5 per cent, but a solid 5 per cent rise in non-agricultural output led to a 3.7 per cent increase in GDP.

This year, despite a 5 per cent increase in agricultural production, GDP is not expected to increase, and according to some expectations in Athens might even fall slightly.

For 1981 the OECD tentative forecast is that GDP could rise by 1 per cent (3.75).

Last year one of the most hopeful signs was a sharp recovery of manufacturing investment for the first time in five years. The level of this investment still remained 10 per cent below the 1974 peak.

For early 1980 limited data available suggest weakening of private investment. Public investment has also been under pressure. The OECD writes that the main brunt of the Government's restrictive policies is planned to be borne by public investment. It expects its investment to fall by about quarter in 1980.

The OECD finds that the rate of net profits after depreciation in manufacturing was too low to sustain a lasting recovery in manufacturing investment. It says that last year labour costs had a moderating effect on prices, with real earnings in the private sector falling significantly.

Between December 1978 and May this year the annual rate of inflation was 28.25 per cent.

Even allowing for factors such as oil prices and phasing-out of some food subsidies, the rate is high enough to worry the OECD deeply.

The IMF report describes how the current account deficit adjusted to include deposits from convertible drachma

accounts, rose to represent 5 per cent of GNP, compared with 2.9 per cent in 1978 and "was the most striking development in 1979."

The OECD finds that developments this year represent a deterioration in the underlying balance of payments position.

The surplus from invisibles such as shipping, emigrants' remittances and tourism covers about two-thirds of the trade deficit against almost four-fifths in 1978. This year the trade deficit is expected to reach nearly \$2.5bn.

After the heavy recent borrowing abroad cost of servicing Greece's debt is expected to rise it adds.

The OECD finds that "progress in reducing domestic imbalances may be rather limited this year". In 1981, the first year of EEC membership, inflation could be reduced below 20 per cent.

There is need for "a substantially smaller public sector deficit than at present, and a re-ordering of priorities between current and capital expenditure."

THE LEX COLUMN

Why U.S. banks look overseas

standard setting body launches its Exposure Draft 27 in August and a closely similar document will be released in the U.S. during the following month. If all goes well an effectively common standard should emerge by the middle of next year, while Canada also plans to come into line.

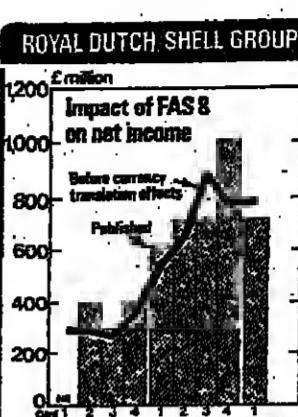
The exposure draft is unlikely to spread many ripples of alarm in the UK. It is in line with the common practice of many UK companies in charging to profits only those exchange differences which reflect cash movements. Other differences are accounted for by means of movements in reserves. But for the U.S., the exposure draft will mark a complete change of approach from that prevailing under FAS 8 since 1975. Whatever the theoretical inadequacies of FAS 8, the underlying reason for the change is the weakness of the U.S. dollar and the high rates of U.S. inflation.

The "temporal" method embodied in FAS 8 has caused huge fluctuations in reported earnings, especially quarterly earnings, which bear no relation to underlying operating profits. A typical cause is that transaction of fixed assets at historical rates and of foreign currency loans at current rates.

The volatility of Shell's earnings under FAS 8 is notorious, while other companies which have had difficulties with the standard include Exxon, Sony and the French group Pechiney. The U.S. Treasury and the Federal Reserve have also become concerned at the standard, since many companies have incurred heavy money costs to rearrange their financial structure in order to limit a purely book-keeping exposure.

Nevertheless, there is still strong opposition from some U.S. companies against changing over to the UK-compatible system, with Du Pont and Caterpillar Tractor in the forefront. A key concern is that worldwide management control systems, based on dollar accounting, will have to be discarded if profits are to be measured in local currencies. A second consideration is the cost of unscrambling loan and other arrangements entered into to adapt to FAS 8.

There is now strong pressure developing for international harmonisation of accounting rules and while there will be a tussle in the U.S., the likelihood is that a common standard will emerge at the end of the day. Furthermore, such a step may herald further changes in the U.S., with the present block on revaluing fixed assets looking especially vulnerable.



In its last report and accounts, Crocker drew its shareholders' attention to an improvement in its capital ratios, pointing out that the equity/average total assets ratio had risen from 3.3 per cent to 4.1 per cent since 1974, at which level it compared favourably with the position of similar authorities.

In its last report and accounts, Crocker drew its shareholders' attention to an improvement in its capital ratios, pointing out that the equity/average total assets ratio had risen from 3.3 per cent to 4.1 per cent since 1974, at which level it compared favourably with the position of similar authorities.

Crocker's shares were trading around \$30 before bid rumours began to circulate, and this represented a discount of at least a third to book value. The bank would probably have been reluctant to issue shares around this level anyway: in addition, the Midland bid offers it an amount of new equity larger than the market capitalisation of its existing ordinary shares, a sum that it would not have been able to raise in any other way.

This does not mean that the bid will necessarily appeal to Crocker shareholders. The idea that bank shareholders can only be bought out at a premium to book value dies hard in the U.S., and although the new capital is clearly immensely valuable to the bank, it would be obtained at the expense of independence.

The general consensus among analysts is that Midland's earnings per share would not suffer any short-term dilution through taking in Crocker. Crocker's return on assets has been perfectly respectable, but U.S. banks have not been profitable enough to be able to afford the luxury of giving prominence to the London clearers have recently done, to inflation-adjusted earnings.

For 1979, Crocker's net income (stripping out the profit on a major property sale) was \$77m. Midland must be keenly aware that after a \$58m adjustment to compensate for the loss of value of monetary working capital and around \$7m of additional depreciation, the \$30m dividend—even giving some allowance for a gearing adjustment—can have been barely covered.

Goodbye FAS 8

The battle to introduce an international standard on accounting for currency fluctuations comes to a head over the next few months. The UK

Cheap U.S. chemical exports increasing

By Sue Cameron,
Chemicals Correspondent

EUROPEAN CHEMICAL companies claim that the U.S. is increasing its exports of cheap petrochemicals to the EEC in advance of possible anti-dumping regulations.

The European Council of Chemical Manufacturers' Federations (CEFIC) said at the weekend that U.S. imports appeared to have taken a growing share of Europe's styrene and vinyl acetate markets over the last few months—in spite of anti-dumping complaints against the U.S. over both products.

The European Commission has already announced an official anti-dumping investigation against the U.S. over styrene, while a similar announcement on vinyl acetate is expected this week. Both products are used to make plastics.

The increase in U.S. exports to Europe of these chemicals is almost certain to increase pressure on the European Commission for provisional anti-dumping duties.

CEFIC said that the share of the European free market—which excludes in-house sales between the various divisions of individual companies—held by U.S. styrene exporters had risen from 21 per cent last year to 25 per cent in the first three months of this year. It said there were now indications that it had risen "easily over 25 per cent" during the last three or four months.

Figures on European imports of vinyl acetate from the U.S. were not yet available for April to June of this year, CEFIC said. But it believed that U.S. producers were increasing their exports of vinyl acetate in much the same way as those of styrene.

"The indications we already have pinpoint the need for swift action," CEFIC said.

6,000 on short time at BL

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT, AND PHILIP BASSET, LABOUR STAFF

BL CARS announced last night that 6,000 workers making Rover saloons and the TR7 sports model were to go on short time, possibly until Christmas.

In a separate move BL Cars has concluded a major procedural agreement with its white-collar unions which extends collective buoyancy in many cases for the first time to management staff.

BL Cars, which had short time in the spring to clear a backlog of stocks and ease cash flow problems, said last night that no other models were threatened.

News of short time cast further gloom over the troubled automotive industry, already hit by a sharp drop in sales of cars, commercial vehicles and tractors.

Many component suppliers are shedding labour. Redundancy plans have been announced by companies such as GKN, Wilmot Breeden, Renold, and Associated Engineering.

BL said Rover was suffering, like other manufacturers, from reduced demand for executive cars. About 4,000 at Solihull

assembly plant, Birmingham, would work a four-day week at least until the end of September, and 2,000 at Ammanford, Cardiff, supplying gearboxes for the Rover, would be affected.

BL Cars has increased its share of the home market to about 17 per cent from the record low of less than 14 per cent last month. But sales are very low as buyers await introduction of the "W" registration next month.

The procedural agreement on harganising rights signed earlier this month will be followed by a similar one between covering Leyland Vehicles' management staff.

The BL Cars agreement is viewed by the signatory unions as a breakthrough on representation and bargaining rights for senior staff who had only individual representation.

In particular some union officials are relieved that the agreement has been signed before the Government's Employment Bill becomes law, probably at the end of this month.

They believe that the agreement will help stave off the likelihood of an increased number of ballots of the staff, which they think likely to be urged by hawks in BL management after enactment of the Bill, with its great stress on increased use of ballots in industrial relations.

The procedural agreement on harganising rights signed earlier this month will be followed by a similar one between covering Leyland Vehicles' management staff.

Resolutions submitted, published at the weekend, include an unprecedented number of resolutions opposing nuclear weapons.

The subject now seems certain to be debated in an atmosphere which may revive some of the bitter divisions over defence which split the party in the 1950s.

It might therefore not fight so hard on disarmament in the year in the belief that any such move would be reversed once conference.

Councils to change accounting methods

By Robin Pauley

LOCAL AUTHORITY accountants have agreed to adopt commercial accounting standards and practices after a long dispute in the accountancy profession.

This means that comparisons between public sector and commercial accounts should be easier as the bases for compiling the figures will be more standardised.

Guidance notes which will go to local authorities at the end of the month will help to meet objections that councils are not required to give a "true and fair" account of their finances.

They also represent a victory for the commercial accountants who have long argued the desirability of having two separate sets of accounting standards and principles.

The obvious solution to a shortage of capital is a rights issue of new equity. In the U.S., however, share issues are generally placed through a syndicate, rather than being offered by way of rights to existing shareholders. Under this method, an offering of new shares at under book value dilutes the interest of the existing shareholders, and so U.S. banks are generally unwilling to issue equity at a discount. As most banks—with the exception of the fast-growing Sun Belt institutions—are valued by the stock market at a substantial

discount to net worth, new issues have been rare.

Crocker's shares were trading around \$30 before bid rumours began to circulate, and this represented a discount of at least a third to book value.

It looks as though the margins Crocker is earning on its business are simply too slim to support the sort of growth in its loan portfolio that its market value means that occasionally—earlier this year, for example—the book value of their equity is unrealistically high.

And more seriously, the acceleration of inflation in the U.S. is requiring banks to sustain a more rapid rate of balance sheet expansion in nominal terms.

The commercial accounting bodies and the Chartered Institute of Public Finance and Accountancy have together been seeking common ground on the statements of standard accounting practice (SSAPs) for most of this year.

Mr. Noel Hepworth, director of CIPIFA, said: "The main point, often clouded by argument about different accounting methods, is to ensure that local government is as efficient as possible."

Divisions on the Left over the precise form of the proposed code to elect the Leader may well surface at the Executive this week.

Some Left-wingers are unhappy with the idea that the unions should be given the decisive say, as the motion before them on Wednesday will propose.

Even if Mr. Callaghan and his supporters succeed in heading off the proposal at this week's meeting of the Executive, Left-wingers are determined that it should be debated in some way at conference.

Since the start of July there have been more than 50 stoppages throughout Poland. They were originally provoked by

authorities' move to raise some meat prices.

But the authorities, aware that in 1970, when workers struck in protest against food-price increases, an attempt to use force led to the fall of the previous leadership, decided to negotiate a return to work with shop-floor delegates this time.

For wage settlements arising out of the present wave of strikes Zloty don have been set aside.

Whitehall are that several major obstacles remain to getting such a radical new scheme off the ground. Even supporters of the idea concede that the odds are not yet in favour of change.

There is particular concern about whether an index-linked gilts should represent an open invitation to foreign money to flood into London even more than recently. The oil-producing states are especially keen to find any inflation-proofed investment for their vast surpluses.

The Bank of England has been particularly cautious. It has said publicly that the question of issuing index-linked gilts should be considered not in isolation but in relation to its wider social and economic implications.

Mr. Edwina George, an assistant director of the Bank, told the Treasury and Civil Service Committee this month that it was by no means clear indexed gilt-edged stocks would provide cheaper funding for the Government. It depended on the assumptions about the real rate of interest on indexed debt and returns on conventional debt as well as on the speed and extent of the fall in inflation. Such factors persuaded Mr. Denis Healey the former Chancellor, to turn down proposals for issuing indexed gilts.

The idea may come up again today when Mr. Gordon Richardson, the Governor of the Bank of England, gives evidence to the Committee as part of its inquiry into money policy.

The indications within

Weather

UK TODAY

SUNNY intervals, scattered showers. Cool.

London, S.E. C.N.W. C.N.E. N.W. Midlands, N. Wales

Scattered showers, sunny intervals. Max. 18C (63F).

E.N.E. England, E. Anglia, N.W. S.W. Scotland

Showers, sunny intervals. Max. 18C (59F).

S.W. England, S. Wales